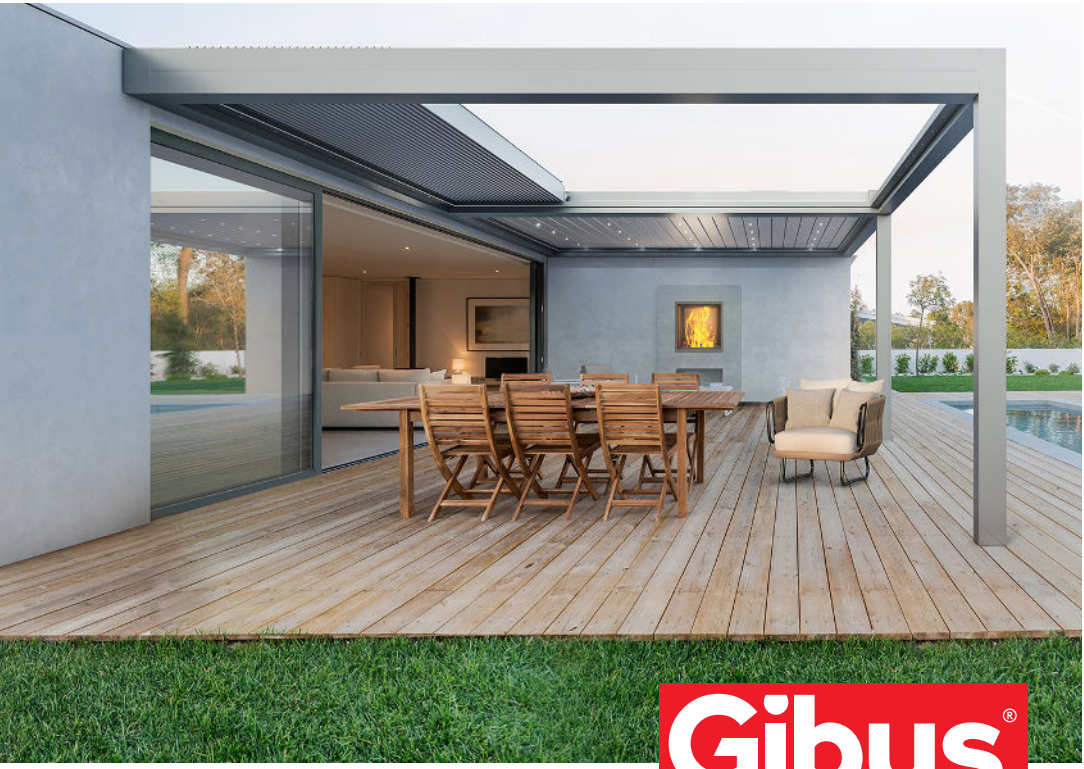

Gibus®
THE SUN FACTORY

USE AND MAINTENANCE MANUAL
DECLARATION OF QUALITY
DECLARATION OF WARRANTY
DECLARATION OF PERFORMANCE DoP

MODEL

VELVET

ISLAND VERSION, LEANING VERSION, SINGLE MODULE, COUPLED

CE | UKCA

ENG

MUT 113
Code 340416
Rev. 1
30/10/2022

Gibus S.p.A. Via Luigi Einaudi, 35 35030 Saccolongo (PD) - ITALY www.gibus.it - gibus@gibus.it

WARNING: carefully read all warnings and instructions in this manual and in the use and maintenance manual before carrying out any operation with the awning. Read in particular the chapter on safety.

Dear Customer,
thank you for choosing an awning by “Gibus”, we are pleased to deliver this manual in order to help you to use the product in the best possible way.

Please read carefully the recommendations described in the following pages and keep the manual at hand for the Gibus specialist who will be responsible for management and maintenance of the awning.

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IMPORTANT NOTE:
For the sake of simplicity, in this manual the product may be referred to as “pergola”, “awning” or “structure”.
The correct definition that identifies the product is “Drop Awning”, with a detailed description found in section 1.1 “Preliminary Information” and in Chapter 15 “Annexes”.

These instructions were translated from Italian (original language).

Gibus
THE SUN FACTORY

TABLE OF CONTENTS

CHAPTER 1: INTRODUCTION

1.1 PRELIMINARY INFORMATION

Do not destroy and change, if needed just supplement with inserts published by the manufacturer. This manual refers to the product:

Type of awning:	Bioclimatic Pergola, isolated or leaning against the wall, for outdoor use.
Models:	VELVET (ISLAND - LEANING VERSION)
Published:	Gibus S.p.A. via L. Einaudi, 35 - 35030 SACCOLONGO (PD) - ITALY http: www.gibus.it - e-mail: gibus@gibus.it
List of annexes:	Installation instructions - Motors and automatisms instructions - Delivery certificate.

Each operator and personnel in charge of the installation, adjustments, operation and maintenance of the Bioclimatic Pergola, must read very carefully this manual and observe the instructions given, the operator in charge of the installation and maintenance must also meet the qualification requirements for the use and maintenance of the Pergola.

IMPORTANT: The instruction manual is aimed at those who use the Bioclimatic Pergola, such as an installer, maintainer, owner or user and is the basis for the correct use and maintenance of the product. Addressed **to the installer** are the instructions for handling, unpacking, installation, adjustment and maintenance. Addressed **to the owner** are the instructions for proper use, maintenance and disposal, as well as the warranty. **This manual is an integral part of the product.** Keep it intact and in an easily accessible place for future reference and at hand for further consultation until the disposal of the Bioclimatic Pergola. In case of loss or destruction of the manual, the customer must request a new copy to his Retailer, providing the main data of the product and the destination of the new copy. When selling this manual must follow the Bioclimatic Pergola to its new destination. **The manual must always be available to the qualified installation, maintenance or control personnel for the necessary registration.** The Manufacturer reserves the right to update products and relevant manuals, with no obligation to update previous manuals. **This manual is the essential tool for maintaining the validity of the guarantee.**

1.2 INSTRUCTIONS FOR USE

The instructions contained in this manual are intended for models:

- **VELVET ISLAND**: Bioclimatic self-supporting stand-alone pergola with cover made up of a brise-soleil with swinging and retractable metal blades, available in single or multi-module versions, with coupling modules.
- **VELVET LEANING VERSION**: Bioclimatic wall-leaning pergola with cover made up of a brise-soleil with swinging and retractable metal blades, available in single or multi-module versions, with coupling modules.

The instruction manual must be read and used in the following way:

- Read this manual carefully, and consider it an integral part of the Pergola;
- The instruction manual must be readily available for use by staff in charge of running and maintenance;
- Keep the manual for the entire service life of the Pergola;
- In case of sale deliver the manual to the new owner of the Pergola;
- Use the manual in such a way not to damage its content;
- In no case remove, tear or re-write any part of the manual;
- Keep the manual in a place protected from moisture and heat;
- If the manual is lost or partially damaged and then its complete content can no long be read, it is advisable to request a new manual to the manufacturer.

In the following pages pay close attention to the following symbols and their meaning. Their function is to highlight essential information such as:

WARNING: DANGER TO THE OPERATOR/USER In reference to dangerous situations that can occur with the use (including installation and maintenance) of the Pergola. Failure to comply with these messages may endanger the safety of persons and the product.

WARNING: In reference to dangerous situations that may occur due to the PRESENCE OF ELECTRICAL VOLTAGE. Failure to comply with these messages may endanger the safety of persons and the integrity of the product.

WARNING: In reference to dangerous situations that can occur with the use of the Pergola to prevent damage to objects and the Pergola itself.

IMPORTANT: Useful information and tips to be observed to ensure proper use and preservation of the Pergola. Failure to observe these messages can affect the integrity and / or resistance of the product.

1.3 REGULATIONS AND SELF-CERTIFICATION DOCUMENTATION

1.3.1 With reference to CE marking
This User's Manual was prepared in accordance as indicated in EN 13561 and and with section 1.7.4 of Annex 1 to Directive 2006/42/EC taking into account the normal use of the Pergola in order to inform, together with other instructions for use affixed to the pergola itself or in the installation instructions, the operators / users on residual risks that the products presents.
The Bioclimatic Pergola complies with the "Construction products regulations - CPR 305/2011" and the requirements given in the Annex ZA of the EN 13561, "assessment and inspection system for performance continuity type 4" (System 4).
If it is installed properly, it has a resistance to wind as shown in the technical data table in section 4, according to the size, in each case greater or equal than those required by the Class 5 of the UNI EN 13561 rule on "External awnings - Performance requirements including safety".
This Technical Classification ensures resistance to a wind that carries a maximum pressure rating of 270 [N/m^2] (Newton/m^2) similar to an wind insisting on the awning with a maximum speed of 70 [km/h] corresponding to the 7–8th level of the Beaufort Scale. The resistance to wind load was evaluated according to criteria related to those required by the UNI EN 13561 and UNI EN 1932 rules and from the technical standards in force, with the necessary safety margins.
The Pergola complies as well as the relevant parts of the Machinery Directive 2006/42/EC. The CE Mark together with wind resistance characteristics according to UNI EN 13561 and the self-certification document (Declaration of Performance DoP) are included in APPENDIX 0 and APPENDIX 1 on the last pages of this manual. The original Declaration of Performance DoP issued by the manufacturer is kept by Gibus S.p.A.

1.3.2 With reference to UKCA marking
This User's Manual was prepared according to EN 13561 and the "Supply of Machinery (Safety) Regulations 2008" taking into account the normal use of the awning and in order to inform the users/operators and provide them with the instructions to install the awning itself and warn users about the residual risks.
The Pergola complies with the relevant parts of "The Construction Products (Amendment etc.) (EU Exit) Regulations 2020" and offers, if it is properly installed, a resistance to a wind load as much as the resistance required by Class 5 of the EN 13561 rule on "External blinds" Performance requirements including safety".
The compliance with this Technical Classification ensures resistance to a wind that carries the maximum pressure rating of 270 [N/m^2] (Newton/m^2) similar to a wind against the awning with a maximum speed of 70 [km/h] corresponding to the 7–8th level of the Beaufort Scale. The resistance to wind load was evaluated according to criteria required by the UNI EN 13561 and UNI EN 1932 rules, with the necessary safety margins.
The Pergola complies the requirements in Annex ZA of the same EN 13561 regulations, where there is an "assessment and inspection system for performance continuity of type 4" (System 4).
The Pergola driven awning also complies with the relevant parts of the "Supply of Machinery (Safety) Regulations 2008".
The UKCA Marking as well as the wind resistance characteristics according to UNI EN 13561 and the self-certification document ("Declaration of Performance DoP") are included in the ANNEX 2 and ANNEX 3 attached to the last pages of this manual. The original of the "Declaration of Performance DoP" prepared by the manufacturer is filed at Gibus S.p.A.

1.4 RESPONSIBILITY

Gibus SpA is not liable and has no obligations for any accidents to persons or property, which may occur due to:
- Failure to follow the instructions in this manual regarding the installation, use and maintenance of the Pergola;
- Violent actions or mishandling in the installation, use and maintenance of the Pergola;
- Changes made to the Pergola without the prior written permission by Gibus SpA;
- Incidents in any case arising beyond the normal and correct use of the Pergola.

In any case, if the user thinks the cause of the incident is a defect of the Pergola, he will have to prove that the damage has been a consequence of such a “defect”.

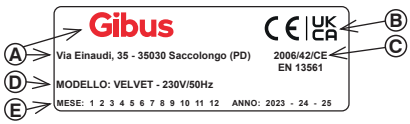
WARNING: For maintenance or repair to always use only original spare parts. Gibus SpA declines all responsibility for damages that may occur for non-compliance with the above instructions. The Pergola is guaranteed according to the contractual arrangement prepared at the time of sale. The warranty is in any case deemed void if the rules and instructions for use and maintenance contained in this manual were not followed.

Quick or careless preparation leads to improvisation, which is the cause of many accidents. Before starting the installation work and before commissioning of the Pergola, carefully read and observe the following tips:
- Program all operation with the utmost care;
- Be well aware of where and how it is provided for the use and maintenance of the Pergola;
- Strictly follow all warnings relating to special dangers listed in this manual;
- The maintainer must always have at hand the instruction manual;
- A constant and careful preventive maintenance will always ensure a high level of operating safety of the Pergola. Never postpone needed repairs and have them carried out only by qualified personnel, and use only original spare parts.

1.5 IDENTIFICATION OF THE PRODUCT AND TECHNICAL NAMEPLATE

Each model is identified by the adhesive technical nameplate showing the CE marking sign and contains the following data:

A Name and address of the registered office of the manufacturer.
B CE marking and/or UKCA marking.
C No of the European rule.
D Model of the awning and specifications.
E Year of manufacture.



Each Gibus awning and pergola is unique, individually recognisable and traceable due to the Gibus trademark 3D hologram with a unique alphanumeric serial number. All Gibus products are supplied with the hologram (see back cover). The hologram is applied near the CE marking.

CHAPTER 2: SAFETY REQUIREMENTS

The manufacturer is not liable for malfunctions and damage if the Pergola:
- Is used for purposes other than those for which it is intended to;
- Is not operated and maintained in accordance with the instructions specified in this manual;
- Is not subject to regular maintenance, as prescribed, or non-original spare parts are used for replacement.

IMPORTANT: For any doubt or unintended use, consult the authorized dealer or the manufacturer before installation.

2.1 PURPOSE AND INTENDED USES OF THE PERGOLA

The Bioclimatic Pergola was designed and made for protection from the sun and rain and it is meant to be used in civil constructions, residential and commercial buildings and other facilities for the community. The bioclimatic pergola in fact provides good protection from the rain when extended with the brise soleil blades in a horizontal position.
The Bioclimatic Pergola is not able to withstand snow load. Therefore should it snow, the blades must be placed vertically (open) before the snow settles on them.
The VELVET model is characterized by the possibility of retracting the brise-soleil blades to open the cover. Packing (collection) of the blades can only take place with the blades oriented vertically. With the blades extended (upper opening obstructed) the orientation of the blades can be controlled independently from the collection (from horizontal to vertical). The vertical orientation of the brise soleil baldes with extended configuration is recommended in case of snowfall. The open space between the vertical blades helps to avoid or reduce the accumulation of snow on them. It is advisable to use the snow sensor, temperature sensor combined with the rain sensor, to detect snow and to orient the blades vertically in order to prevent it depositing.
In all cases, do not stand under the pergola if any snow has deposited on it (*)**. Any other use is considered improper and inadequate and releases the manufacturer from all liability for any damage caused to persons or property.**
The Bioclimatic Pergola offers, if properly installed, a resistance to wind load equal to those required by the Class 5 of UNI EN 13561. It is therefore recommended the exposure to a wind exerting a maximum pressure of 270 Newton/sqm, corresponding to the load of a continuous wind speed not exceeding 70 km/h.
It is required, for the sake of safety, to open the swinging metal blades vertically before the given limit is reached (even though the pergola offers higher wind resistance depending on its size).
In these meteoric conditions the vertically oriented blades can also be collected while remaining in a safe condition.

IMPORTANT!: If perimeter closures, such as side drop awnings or glass doors, are installed in the VELVET pergola, they must be folded/retracted before the maximum sustainable wind limit is reached for the pergola even if their wind resistance class is higher than that of the pergola.

(*) The VELVET pergola is designed to withstand, with the blades in the closed position, a static load from deposited snow 50 kg/m^2 (without wind).

CAUTION: for safety reasons, the brise-soleil blades on the pergola must be placed vertically in case of very strong rain or hail. In the event of snow or ice, the blades must be rectracted/ folded to about 2/3 - 66% (not completely), leaving a gap of 5 cm between one blade and the next to prevent the accumulation of snow (**); it is very dangerous to leave the blades placed horizontally in these cases, as it can cause injury to persons and damage to property. Do not stand under or near the pergola if any snow has deposited onto it.

(**) In the event of that ice or snow has accumulated on the cover, it might be difficult to open the blades if they are in the horizontal position (i.e. closed).

IMPORTANT: In order to use the Pergola for purposes other than those described above, a specific permission given by the manufacturer is required. Failure to follow the conditions for proper use, voids any warranty given by the manufacturer.

2.2 USE ENVIRONMENT

The Pergola was designed and built to be used outside. It offers adequate protection of the electrical parts to water infiltration. The motors and the control units provides a degree of protection against moisture equal to at least **IP44**.

CAUTION: the engines cannot be used in atmospheres posing risk of explosion.

The Pergola can also be used outdoors or away from the wall of a building (intended use), provided that the system is degree of protection **IP55**.
It needs a 230V/50Hz power supply. Install an upstream electrical switch suitable to 230V/50Hz with magnetothermal and differential functions (see paragraph 6.2. “ELECTRIC CONNECTION”). The electrical switch should be placed in a protected position, in an easy to reach position, high from the ground and away from dangerous areas.

ATTENTION!: Corrosion resistance is not guaranteed in the event of immersion or sprays with salt water (sea storms, etc.). Also, with intense exposure to salty fog, incrustations or bubbles could appear in the connections or aluminium profiles and oxide or rust could appear on the stainless steel brackets. These conditions are not covered by warranty.

CAUTION: No person should install or place ladders or other fixed objects in such a way as to obstruct the movement of the blades.

2.3 OPTIONAL SAFETY DEVICES

Wind sensor: The wind sensor detects the wind speed. It has the highest priority among the sensors. Slf the brise soleil blades are in the extended and horizontal position (cover closed) when the alarm is activated, the device directs the blades to the open position at approximately 2/3 - 66%. If the brise soleil blades are in the collected and vertical position (cover open) when the alarm is activated, the device extends the blades and directs them to the open position at approximately 2/3 - 66%. The control unit does not perform any command during the status of alarm and it resumes its normal operation when the alarm is not active anymore.
Wind sensor threshold: With DIP SWITCH 1, 2 and 3 it is possible to set the wind speed alarm threshold (Km/h):

DIP 1	DIP 2	DIP 3	Km/h
OFF	OFF	OFF	40
OFF	OFF	ON	45
OFF	ON	OFF	50
OFF	ON	ON	55
ON	OFF	OFF	60
ON	OFF	ON	65
ON	ON	OFF	70
ON	ON	ON	75

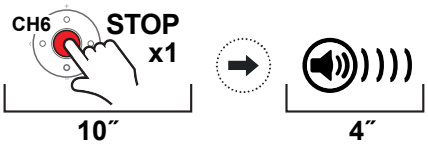
The alarm is off when the sensor detects for 60 seconds a speed lower than the set threshold. Alarm priority: HIGH. The default sensor is ENABLED.

Rain sensor: When the sensor detects the rain,the alarm is activated. If the brise soleil blades are in an extended and horizontal position (cover closed) when the alarm is activated, the device leaves the blades as they are. If the brise soleil blades are in a collected and vertical position (cover open) when the alarm is activated, the device extends the blades and directs them into a horizontal position (cover closed). The control unit doesn't perform any command during the status of alarm. The alarm is off when the sensor doesn't detect the presence of the rain for 20 seconds. By default the sensor is activated. Alarm priority: LOW.

Functioning of the system AFTER the rain alarm (Water draining):
Once the rain alarm is off, for the next 6 hours, as soon as a command of automatic movement sent by transmitter is received, the control unit will rotate the blades when opening to 33%, to allow the water draining. For 4 minutes the control unit will perform just hold-to-run commands, switching off the alarm status.

Activation/Deactivation of the rain sensor using a transmitter:
In order to perform this procedure at least one transmitter must be memorized (par. 6.2), and it must be performed when the blades are stationary. By default the sensor is activated.

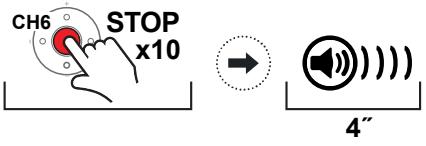
Activation: Press for 10″ the button "STOP" of transmitter. The buzzer emits for 4″ a continuous sound.



Deactivation: Press for 10″ the button "STOP" of transmitter. The buzzer emits 2 beeps.

Temperature sensor: The sensor detects the temperature that could cause the freezing of the pergola slats. If it is under 2°C the alarm is activated. If the brise soleil blades are in the extended and horizontal position (cover closed) when the alarm is activated, the device directs the blades to the open position at approximately 2/3 - 66%. If the brise soleil blades are in the collected and vertical position (cover open) when the alarm is activated, the device extends the blades and directs them into the open position at approximately 2/3 - 66%. The alarm is off when the temperature is over 3°C. The control unit performs just hold-to-run commands during the status of alarm, and resumes its normal operation when the alarm is not active anymore. By default the sensor is deactivated. Alarm priority: MEDIUM.

Activation (possible only if the sensor is connected):
Press the STOP key on the transmitter 10 times, keeping it pressed for the tenth time for 2″. The buzzer emits for 4″. a continuous sound.



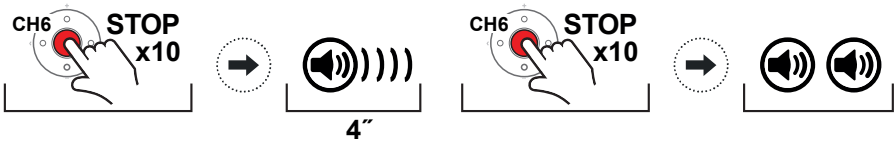
Deactivation: Press the STOP key on the transmitter 10 times, keeping it pressed for the tenth time for 2″. The buzzer emits 2 beeps.

Snow condition (temperature sensor combined with rain sensor):
To manage the alarm related to the condition of snow it's necessary combine temperature sensor and rain sensor. The alarm is on when the temperature is under 2°C and the rain has been detected, then the device moves the brise soleil blades at the 66% of the opening.

The alarm is off when the temperature is over 3°C or when there is no rain detection. The control unit performs just hold-to-run commands during the status of alarm, and resumes its normal operation when the alarm is not active anymore. By default the combination is deactivated.Alarm priority: MEDIUM.

Activation (possible only if the sensor is connected):
Press the STOP key on the transmitter 10 times, keeping it pressed for the tenth time for 2″. The buzzer emits for 4″. a continuous sound.

Deactivation: Press the STOP key on the transmitter 10 times, keeping it pressed for the tenth time for 2″. The buzzer emits 2 beeps.



Electronic antifreeze system in the gutter:
The Gibus antifreeze system is a system for heating the upper surface of the gutters and is able to prevent the formation and/or excessive accumulation of snow in the gutter.

ATTENTION:
If the rain sensor is deactivated, the anti-snow system does not work.

For further information about the motor control unit and for specific phases like transmitters and linear actuators, refer to paragraphs 6.2 and 6.3, and the specific instructions supplied with the control unit and sensors.

2.4 USER AND INSTALLER REQUIREMENTS

The normal use of the Bioclimatic Pergola is allowed to everyone, except those younger than 12 years. The installation of the Bioclimatic Pergola and of the electrical system, the adjustment of the Pergola and the setting of the engines limit switch, as well as maintenance must be performed by qualified personnel only. The installation of the Pergola adjustments must be performed strictly in accordance with the manufacturer's instructions provided in this manual and especially following the attached Installation Instructions referred to in the pertinent sections of this manual (Chap. 6 and Chap. 7).

2.5 RECOMMENDATIONS

In the manual and especially in the attached Installation Instructions referred to in the pertinent sections of this manual (Chap. 6 and Chap. 7), are listed **all instructions** for proper handling, storage, installation, use and maintenance of the Pergola, in compliance with the product standards and the "Machinery Directive" and to avoid harm to people or damage to the Pergola itself. Are also given instructions to perform properly both dismantling and disposal.

WARNING: The installation of the Pergola and its electrical connection, are only to be carried out by specialized and authorized staff.
Any operation on the electrical system must be carried out by trained personnel only. For any doubt or unintended use, consult the manufacturer before installation.

WARNING: The installation of the Pergola must be carried out in accordance with the instructions in this manual. A different installation could result in hazardous situations. In this regard see the sections "SAFE INSTALLATION" and "INSTRUCTIONS FOR PROPER INSTALLATION" and the installation instructions attached to this manual and inside the package.

WARNING: You can not alter or modify the Pergola. Any changes or modifications made without proper authorization by the manufacturer, relieves the latter from any liability for any damage that may result and void the warranty.

ATTENTION: it is strictly forbidden to carry out operations using open flames in the vicinity of the Pergola.

Recommendations to be taken in the presence of staff (only if staff is working under the structure):
- if the structure is installed as a stand-alone structure, assess the lighting hazard according to Law Decree 81/08 (in the Chapter III of Title III) by applying the technical reference regulations such as CEI EN 62305-2 (CEI 81-10/2).
- If the structure leans against an existing building, carry out the lighting hazard assessment again in accordance with Law Decree 81/08 (in chapter III of Title III) by applying the technical reference regulations such as CEI EN 62305-2 (CEI 81-10/2).

CHAPTER 3: TECHNICAL DESCRIPTION

The Bioclimatic Pergola of the ***VELVET*** line were designed and built according to the principles of constant innovation, impeccable workmanship and attention to the details of ***Gibus Total Quality***. A system of values designed to ensure complete customer satisfaction.
VELVET ISLAND is a bioclimatic pergola with an aluminium moveable brise soleil, built in a special and dedicated self-supporting structure that is installed in a stand-alone way and isolated from any building. For ***VELVET LEANING VERSION*** the structure dedicated must be leaned against the wall of a building. The cover is formed of swinging and retractable metal blades. When it is sunny, open the blades to provide the required shade for improved outdoor comfort and a natural airflow that carries the hot air upwards. When it rains the closed blades offer protection and carry the water to the gutters incorporated in the supporting structure. The Bioclimatic Pergola is equipped with several patented systems to facilitate and speed up the installation work and improve the performance of the product:

Gibus Patent® ***VELVET Motion***: brise soleil blades movement system which, with the blades extended, allows the opening movement of the blades (orientation) independently of their packing.

Gibus Patent® ***Side Seal***: a side holding system for the blades resting on a seal along the inside edge that provides isolation from the outside.

Gibus Patent® ***Quick Assembly***: Quick connection system of the supporting structure free from exposed fastening elements.

Gibus Patent® ***Quick Blade***: system for the rapid insertion and removal of the brise soleil blades.

Gibus Patent® ***Blade Seal***: Blades sealing system.

3.1 STRUCTURAL AND MECHANICAL COMPONENTS

The Gibus bioclimatic pergola is formed of a self-supporting structure or attached to a wall, made from painted aluminium and with side guides attached to the self-supporting gutters, supporting legs measuring 150x150 mm, cover formed of adjustable swinging brise soleil blades.
The guide profiles, adjustable blades, bearing structure beams are extruded Anticorodal EN AW 6060 UNI EN 573-03 UNI EN 755-2 that is then treated with anticorrosion phosphochromatisation painted with thermosetting polyester powder.
The couplings include stainless steel brackets, painted extruded aluminium parts, stainless steel nuts and bolts. The movement drive system is on side guides with linear actuators, which are remotely controlled.
The plastic components are melted in fiberglass and nylon plastic.

ATTENTION!: Corrosion resistance is not guaranteed in the event of immersion or sprays with salt water (sea storms, etc.). Also, with intense exposure to salty fog, incrustations or bubbles could appear in the connections or aluminium profiles and oxide or rust could appear on the stainless steel brackets. These conditions are not covered by warranty.

3.2 ELECTRICAL COMPONENTS

The drive system for blade orientation consists of 2 linear motors. The drive system for blade packing consists of 2 gearmotors. The piloting and control system takes place with synchronised control units. Degree of protection: IP66. Noise level: max. 60 dB (A). Working temperature: -15°C to +55°C (in compliance with ISO 7176-9 standard). Endstops controlled by a dedicated electronic control unit.

CAUTION: the power supply group has an electrical insulation of Class II. It is therefore not recommended to ground the structure with the following attentions:

WARNING: the vertical side awnings have tubular motors with electrical insulation levels lower than class II. The bioclimatic pergola must be grounded according to the diagram shown in the Installation Instructions.

WARNING: even if there are accessories and parts powered at 230V/50Hz with an electrical insulation level lower than class II (for example, the heaters or snow melters), the bioclimatic pergola must be grounded according to the diagram shown in the Installation Instructions.

Upstream a magnetothermal and differential switch must be installed with the characteristics defined in the table below. If there is more than one output line from the pergola, each single line must be protected. Provide power cables as defined in the table below.

VELVET Electric Features

Type	Bioclimatic pergola.		
Power supply	230 V (+10% +15%) 50Hz (*)		
Max. absorbed power	320 W for standard configuration modules (only blade movement) +max. 240 W with blade Led Spot +max. 240 W with perimeter Led Spot +max. 320 W with RYB leds +max. 750 W with antifreeze system Tot. max. about 2000 W (8,0 A) Refer to the labels on the outputs on each single line. For the other accessories (snowmelt system, audio system, side awnings and heaters) refer to the power levels defined in the catalogue.		
Insulation class	Class II (the structure must not be earthed) for standard configuration modules (blade movement and Spot White lights and with RYB). Class I (the structure must be earthed) for standard configuration modules (tubular motors).		
Connection mode	by IP68 Male/female connector.		
Power cable (supplied by the customer)	YOU NEED a double insulated cable. Provide a cable: H07RN-F type with minimum formation dependent on power		
For max power:	up to 2 kW	up to 3 kW	up to 5 kW
up to 30 m	3G 1,5 mm^2	3G 2,5 mm^2	3G 4,0 mm^2
up to 50 m	3G 2,5 mm^2	3G 4,0 mm^2	3G 10,0 mm^2
Upstream protection (supplied by the customer)	Magnetothermal switch and differential switch with intervention current 0,03 A. Type of differential protection: A (**).		
For max power:	up to 2 kW	up to 3 kW	up to 5 kW
Magnetothermal switch features:	2 10A poles Curve C	2 16A poles Curve C	2 25A poles Curve C
Protection against overvoltage	None (provide the electric board with a suitable SPD protection system).		
Operating temperature	-20°C / +55°C		
Degree of protection	IP 54		

"(*): Or different depending on the place of installation.
(**): If there is more than one output line from the pergola, each single line must be protected.
In the case of antifreeze system, the differential must have an intervention current of 0.01A (dedicated line).
In case of Schuko socket, the differential must be of the AC type and the intervention current of 0.03A."

IMPORTANT: The instructions specific for engines and controls are supplied upon delivery of the Bioclimatic Pergola. These instructions must be read, annexed to this manual and keep in good condition for any subsequent consultation.

3.3 ELECTRONIC COMPONENTS OF THE AWNING (OPTIONAL)

Upon optional request the Bioclimatic Pergola can be managed electronically **in its functions with control of the weather conditions.** In this case, the Bioclimatic Pergola can be fitted with additional electronic sensors for wind, rain, temperature, and snow (see paragraph 2.3 and 2.4).

CAUTION: Never set the wind speed above the wind resistance of the awning itself (maximum threshold recommended for VELVET: 60 Km/h).

IMPORTANT: The installation and maintenance instructions of the control units and sensors are attached to the control unit packages, which are delivered along with the Bioclimatic Pergola or placed in the accessory box. These instructions must be read, annexed to this manual and keep in good condition for any subsequent consultation.

3.4 FABRIC COMPONENTS

The measured noise (sound pressure level) was less than 55 dB (A).

CHAPTER 4: TECHNICAL DATA

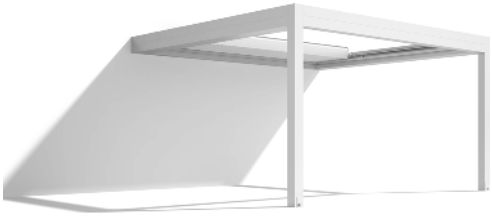
4.1 TYPE

VELVET ISLAND (Basic Module)

With 4 legs:
Width up to 450 cm
Projection up to 603 cm

VELVET FRONTAL LEANING VERSION (Basic Module)

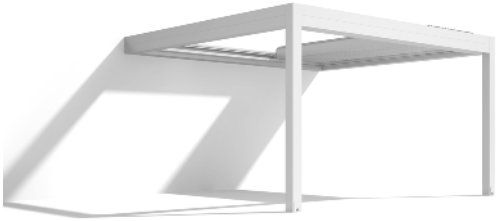
Tubular motor parallel to the wall



With 2 legs:
Width up to 450 cm
Projection up to 603 cm

VELVET LATERAL LEANING VERSION (Basic Module)

Tubular motor perpendicular to the wall

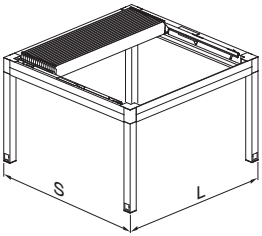


With 2 legs:
Width up to 603 cm
Projection up to 450 cm

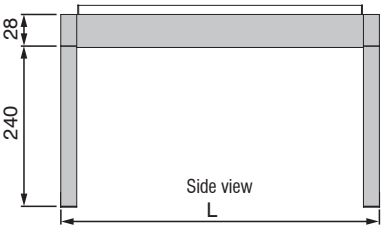
COMPLEMENTS
- Blades Insulation.
- Lighting with LED.
- Interface for Smart Devices control.
- Radio interface for Domotic System.
- Heaters.
- Audio system.

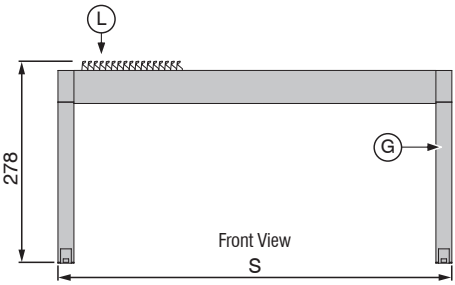
OPTIONAL
- Additional leg.
- Drainage pipe integrated integrated in the post.
- Increased footing (single or double).
- Overhanging guide.

4.2 VELVET ISLAND



ISLAND - SINGLE MODULE
4 LEGS max. L x S 4,50 x 6,03





1 Module		WIDTH "L" (cm)											G	L
		200	225	250	275	300	325	350	375	400	425	450	n°	n°
		kg												
PROJECTION "S" (cm)	203	237	248	260	271	282	293	305	316	327	339	350		8
	223	250	262	274	286	298	310	322	334	346	358	370		9
	243	262	275	288	301	313	326	339	351	364	377	390		10
	263	275	288	302	315	329	342	356	369	383	396	410		11
	283	288	302	316	330	344	359	373	387	401	415	429		12
	303	300	315	330	345	360	375	390	405	419	434	449		13
	323	313	329	344	360	376	391	407	422	438	453	469		14
	343	326	342	358	375	391	407	424	440	456	473	489		15
	363	339	356	373	390	407	424	441	458	475	492	509		16
	383	351	369	387	404	422	440	458	475	493	511	529		17
	403	368	386	405	423	441	460	478	497	515	534	552	4	18
	423	380	400	419	438	457	476	495	515	534	553	572		19
	443	393	413	433	453	473	492	512	532	552	572	592		20
	463	406	426	447	468	488	509	529	550	571	591	612		21
	483	418	440	461	482	504	525	546	568	589	610	632		22
	503	435	457	479	501	523	545	567	589	611	633	655		23
	523	448	470	493	516	539	561	584	607	630	652	675		24
	543	460	484	507	531	554	578	601	625	648	671	695		25
	563	473	497	521	546	570	594	618	642	666	691	715		26
	583	486	511	535	560	585	610	635	660	685	710	735		27
	603	498	524	550	575	601	626	652	678	703	729	754		28

Legend:
kg = Total pergola weight including the supporting structure and brise soleil blades.
G = Legs.
L = Brise soleil blades.

IMPORTANT: For each size the load shown in the table is still greater than the one provided by Class 5 - UNI EN 13561 / UNI EN 1932 (nominal load continuously distributed on the extended surface equal to approximately 27 [kg/m²] or 270 [N/m²]).

Indicative Maximum vertical load [kg/m²]								
"S" \ "L"	G	L	200	250	300	350	400	450
203	4	8	1200	1059	891	722	544	366
303		13	1034	882	731	579	442	305
403		18	840	706	571	436	340	244
503		23	647	538	430	321	257	193
603		28	453	385	316	248	202	156

Snow load without wind [kg/m²]								
"S" \ "L"	G	L	200	250	300	350	400	450
203	4	8	800	689	578	466	349	232
303		13	674	575	475	375	285	194
403		18	548	460	372	285	221	157
503		23	422	352	281	211	168	125
603		28	296	252	207	163	132	102

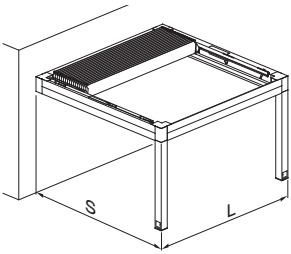
The values reported in the table on the right, show the snow load resistance when there is no wind. The pergola structure and cover are designed and certified to resist a deposited snow load (with no wind) that varies by size.
In case of snow, it is advised to the blades must be placed vertically (open) before the snow settles on them. Do not stand under or near the pergola if any snow has deposited on it.

LEGEND - "BEAUFORT" WIND SCALE						
GRADE 12	GRADE 11	GRADE 10	GRADE 9	GRADE 8	GRADE 7	GRADE 6
Hurricane Force	Violent storm	Storm	Strong gale	Gale	High wind	High wind

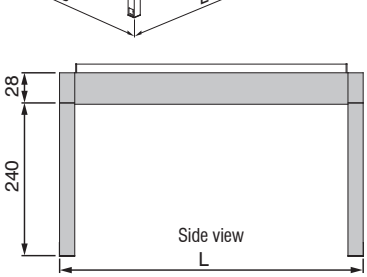
Wind Resistance [kg/m²] Without Integrated ZIP Screens								
"S" \ "L"	G	L	200	250	300	350	400	450
203	4	8	215	178	146	116	92	70
223		9	206	172	142	114	90	69
243		10	199	167	138	112	88	68
263		11	191	161	134	109	87	66
283		12	183	156	130	107	85	65
303		13	176	150	127	105	83	64
323		14	169	145	123	103	82	63
343		15	161	140	119	101	80	62
363		16	154	134	116	99	78	60
383		17	148	129	112	96	77	59
403		18	141	124	109	94	75	58
423		19	134	120	105	92	74	57
443		20	128	115	102	90	72	56
463		21	122	110	99	88	71	55
483		22	116	105	94	84	68	53
503		23	110	99	90	80	65	51
523		24	104	94	85	76	62	50
543		25	99	89	81	72	60	48
563		26	93	85	76	68	57	47
583		27	88	80	72	65	55	45
603		28	83	75	68	61	52	44

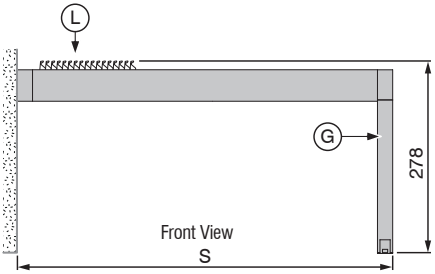
Wind Resistance [kg/m²] Integrated ZIP Screens closed or semi-closed on 2 or 4 sides								
"S" \ "L"	G	L	200	250	300	350	400	450
203	4	8	160	143	128	114	102	91
223		9	152	138	124	111	100	89
243		10	146	133	120	108	97	86
263		11	140	128	116	105	94	84
283		12	134	123	112	102	91	81
303		13	128	118	108	99	89	79
323		14	123	114	104	96	86	77
343		15	117	109	101	93	84	75
363		16	112	104	97	90	81	72
383		17	107	100	93	87	78	70
403		18	102	96	90	84	76	68
423		19	97	92	87	82	74	66
443		20	92	88	83	79	71	64
463		21	87	84	80	76	69	62
483		22	83	79	76	72	66	60
503		23	78	75	72	69	63	57
523		24	74	71	68	66	60	55
543		25	70	67	65	62	57	53
563		26	66	63	61	59	55	51
583		27	62	60	58	56	52	49
603		28	58	56	54	53	50	47

4.3 VELVET FRONTAL LEANING VERSION



FRONTAL LEANING VERSION - SINGLE MODULE
2 LEGS max. L x S 4,50 x 6,03





1 Module		WIDTH "L" (cm)											G	L
		200	225	250	275	300	325	350	375	400	425	450	n°	n°
		kg												
PROJECTION "S" (cm)	203	217	228	240	251	262	274	285	296	308	319	330		8
	223	230	242	254	266	278	290	302	314	326	338	350		9
	243	243	255	268	281	294	306	319	332	344	357	370		10
	263	255	269	282	296	309	323	336	349	363	376	390		11
	283	268	282	296	310	325	339	353	367	381	395	410		12
	303	281	296	310	325	340	355	370	385	400	415	429		13
	323	293	309	325	340	356	371	387	403	418	434	449		14
	343	306	322	339	355	371	388	404	420	437	453	469		15
	363	319	336	353	370	387	404	421	438	455	472	489		16
	383	331	349	367	385	402	420	438	456	473	491	509		17
	403	348	366	385	403	422	440	459	477	496	514	532	2	18
	423	361	380	399	418	437	456	476	495	514	533	552		19
	443	373	393	413	433	453	473	493	513	532	552	572		20
	463	386	407	427	448	468	489	510	530	551	571	592		21
	483	399	420	441	463	484	505	527	548	569	591	612		22
	503	415	437	459	481	503	525	547	569	591	613	635		23
	523	428	451	473	496	519	542	564	587	610	633	655		24
	543	441	464	487	511	534	558	581	605	628	652	675		25
	563	453	477	502	526	550	574	598	623	647	671	695		26
	583	466	491	516	541	566	590	615	640	665	690	715		27
	603	479	504	530	555	581	607	632	658	684	709	735		28

Legend:
kg = Total pergola weight including the supporting structure and brise soleil blades.
G = Legs.
L = Brise soleil blades.

IMPORTANT: For each size the load shown in the table is still greater than the one provided by Class 5 - UNI EN 13561 / UNI EN 1932 (nominal load continuously distributed on the extended surface equal to approximately 27 [kg/m²] or 270 [N/m²]).

Indicative Maximum vertical load [kg/m²]								
"S" \ "L"	G	L	200	250	300	350	400	450
203	2	8	1230	1061	893	725	546	368
303		13	1031	879	727	575	439	303
403		18	833	697	560	424	331	238
503		23	636	525	415	305	244	184
603		28	438	369	301	232	189	145

Snow load without wind [kg/m²]								
"S" \ "L"	G	L	200	250	300	350	400	450
203	2	8	800	689	578	466	349	232
303		13	670	570	470	370	281	191
403		18	538	449	359	270	210	149
503		23	405	334	262	191	153	114
603		28	273	229	186	143	116	90

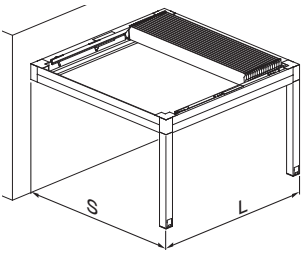
The values reported in the table on the right, show the snow load resistance when there is no wind. The pergola structure and cover are designed and certified to resist a deposited snow load (with no wind) that varies by size.
In case of snow, it is advised to the blades must be placed vertically (open) before the snow settles on them. Do not stand under or near the pergola if any snow has deposited on it.

LEGEND - "BEAUFORT" WIND SCALE						
GRADE 12	GRADE 11	GRADE 10	GRADE 9	GRADE 8	GRADE 7	GRADE 6
Hurricane Force	Violent storm	Storm	Strong gale	Gale	High wind	High wind

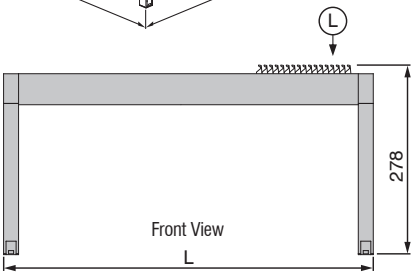
Wind Resistance [kg/m²] Without Integrated ZIP Screens								
"S" \ "L"	G	L	200	250	300	350	400	450
203	4	8	308	249	197	151	112	79
223		9	294	240	190	147	109	77
243		10	281	230	183	142	106	75
263		11	268	220	176	137	103	73
283		12	256	210	169	132	99	71
303		13	243	201	162	128	96	69
323		14	231	191	156	123	93	67
343		15	219	182	149	119	90	65
363		16	208	174	143	115	87	64
383		17	197	165	136	110	84	62
403		18	186	157	130	106	81	60
423		19	175	149	124	102	79	58
443		20	165	141	118	98	76	56
463		21	155	133	113	94	73	55
483		22	145	125	106	89	70	53
503		23	136	117	100	84	66	51
523		24	127	110	94	79	63	49
543		25	118	103	88	75	60	47
563		26	110	96	82	70	57	45
583		27	102	89	77	66	54	43
603		28	94	82	72	62	51	41

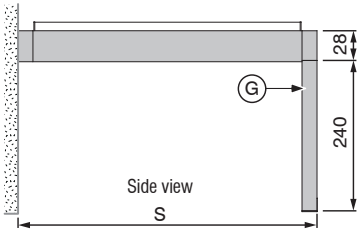
Wind Resistance [kg/m²] Integrated ZIP Screens closed or semi-closed on 2 or 4 sides								
"S" \ "L"	G	L	200	250	300	350	400	450
203	4	8	378	324	274	228	186	149
223		9	359	308	261	218	179	143
243		10	341	293	249	208	171	138
263		11	322	277	236	198	164	132
283		12	304	262	224	188	156	127
303		13	286	248	212	179	149	122
323		14	269	233	200	169	142	117
343		15	253	220	189	160	135	112
363		16	237	206	178	151	128	107
383		17	221	193	167	143	121	102
403		18	206	181	157	134	115	97
423		19	192	169	147	126	109	93
443		20	178	157	137	118	103	88
463		21	165	146	128	111	97	84
483		22	152	135	119	104	91	80
503		23	140	125	111	97	86	76
523		24	128	115	102	91	81	72
543		25	117	105	95	85	76	68
563		26	106	96	87	79	71	64
583		27	96	88	80	73	67	61
603		28	86	79	73	67	62	57

4.4 VELVET LATERAL LEANING VERSION



LATERAL LEANING VERSION SINGLE MODULE
2 LEGS max. S x L 4,50 x 6,03





1 Module		WIDTH "L" (cm)											G	L
		200	225	250	275	300	325	350	375	400	425	450	n°	n°
		kg												
PROJECTION "S" (cm)	203	217	228	240	251	262	274	285	296	308	319	330		8
	223	230	242	254	266	278	290	302	314	326	338	350		9
	243	243	255	268	281	294	306	319	332	344	357	370		10
	263	255	269	282	296	309	323	336	349	363	376	390		11
	283	268	282	296	310	325	339	353	367	381	395	410		12
	303	281	296	310	325	340	355	370	385	400	415	429		13
	323	293	309	325	340	356	371	387	403	418	434	449		14
	343	306	322	339	355	371	388	404	420	437	453	469		15
	363	319	336	353	370	387	404	421	438	455	472	489		16
	383	331	349	367	385	402	420	438	456	473	491	509		17
	403	348	366	385	403	422	440	459	477	496	514	532	2	18
	423	361	380	399	418	437	456	476	495	514	533	552		19
	443	373	393	413	433	453	473	493	513	532	552	572		20
	463	386	407	427	448	468	489	510	530	551	571	592		21
	483	399	420	441	463	484	505	527	548	569	591	612		22
	503	415	437	459	481	503	525	547	569	591	613	635		23
	523	428	451	473	496	519	542	564	587	610	633	655		24
	543	441	464	487	511	534	558	581	605	628	652	675		25
	563	453	477	502	526	550	574	598	623	647	671	695		26
	583	466	491	516	541	566	590	615	640	665	690	715		27
	603	479	504	530	555	581	607	632	658	684	709	735		28

Legend:
kg = Total pergola weight including the supporting structure and brise soleil blades.
G = Legs.
L = Brise soleil blades.

IMPORTANT: For each size the load shown in the table is still greater than the one provided by Class 5 - UNI EN 13561 / UNI EN 1932 (nominal load continuously distributed on the extended surface equal to approximately 27 [kg/m²] or 270 [N/m²]).

Indicative Maximum vertical load [kg/m²]								
"S" \ "L"	G	L	200	250	300	350	400	450
203	2	8	1225	1058	890	722	544	366
303		13	1037	884	732	579	442	305
403		18	847	710	573	436	340	244
503		23	658	546	434	323	258	194
603		28	469	397	326	254	206	158

Snow load without wind [kg/m²]								
"S" \ "L"	G	L	200	250	300	350	400	450
203	2	8	800	688	577	466	349	232
303		13	676	576	476	375	285	194
403		18	552	463	374	285	221	157
503		23	428	356	284	212	168	125
603		28	304	258	212	166	134	103

The values reported in the table on the right, show the snow load resistance when there is no wind. The pergola structure and cover are designed and certified to resist a deposited snow load (with no wind) that varies by size.
In case of snow, it is advised to the blades must be placed vertically (open) before the snow settles on them. Do not stand under or near the pergola if any snow has deposited on it.

LEGEND - "BEAUFORT" WIND SCALE						
GRADE 12	GRADE 11	GRADE 10	GRADE 9	GRADE 8	GRADE 7	GRADE 6
Hurricane Force	Violent storm	Storm	Strong gale	Gale	High wind	High wind

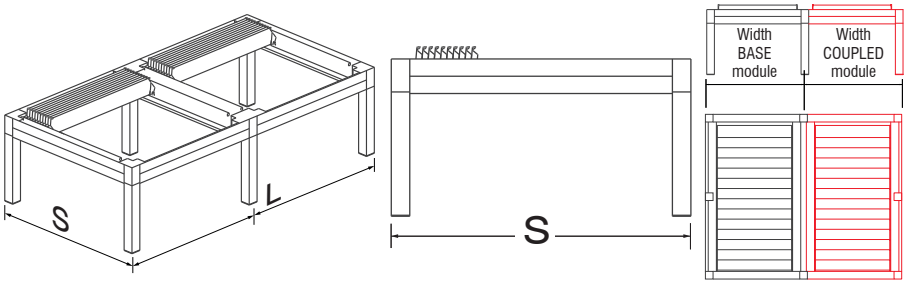
Wind Resistance [kg/m²] Without Integrated ZIP Screens								
"S" \ "L"	G	L	200	250	300	350	400	450
203	4	8	306	248	197	151	112	78
223		9	294	239	190	147	109	77
243		10	281	230	183	142	106	75
263		11	269	220	176	137	103	73
283		12	257	211	170	133	100	72
303		13	246	202	163	128	97	70
323		14	235	194	157	124	94	69
343		15	224	185	150	119	91	67
363		16	213	177	144	115	89	66
383		17	202	169	138	111	86	64
403		18	192	161	132	107	83	62
423		19	182	153	127	103	80	61
443		20	172	145	121	99	78	60
463		21	163	138	115	95	75	58
483		22	154	131	110	91	73	57
503		23	145	124	104	87	70	55
523		24	136	117	99	83	67	54
543		25	128	110	94	79	65	52
563		26	120	104	89	75	62	51
583		27	112	98	84	72	60	49
603		28	104	91	79	68	58	48

Wind Resistance [kg/m²] Integrated ZIP Screens closed or semi-closed on 2 or 4 sides								
"S" \ "L"	G	L	200	250	300	350	400	450
203	4	8	378	322	271	225	181	142
223		9	359	307	258	214	173	136
243		10	341	291	245	203	165	131
263		11	322	275	232	193	158	126
283		12	304	260	219	182	150	121
303		13	286	245	207	172	143	116
323		14	269	231	195	162	136	112
343		15	253	217	183	153	129	107
363		16	237	203	172	143	122	102
383		17	221	190	161	134	115	98
403		18	206	177	150	126	109	93
423		19	192	165	140	117	103	89
443		20	178	153	130	109	97	85
463		21	165	142	121	101	91	81
483		22	152	132	113	96	86	78
503		23	140	122	106	90	82	74
523		24	128	113	98	85	78	71
543		25	117	104	91	80	74	68
563		26	106	95	85	75	70	65
583		27	96	87	78	70	66	62
603		28	86	79	72	66	62	59

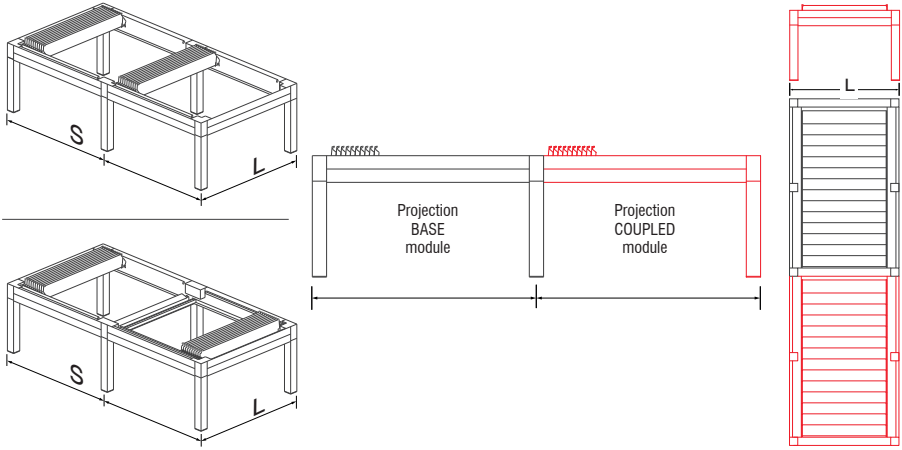
4.5 COUPLING MODULE

The coupling module enables multiplying the number of spans on the pergola, to form a continuous pergola. The coupled modules share the intermediate uprights.
The coupling units can be placed laterally or head on to the basic module; it is possible to couple one or more modules. The drawings shown below are just an example.

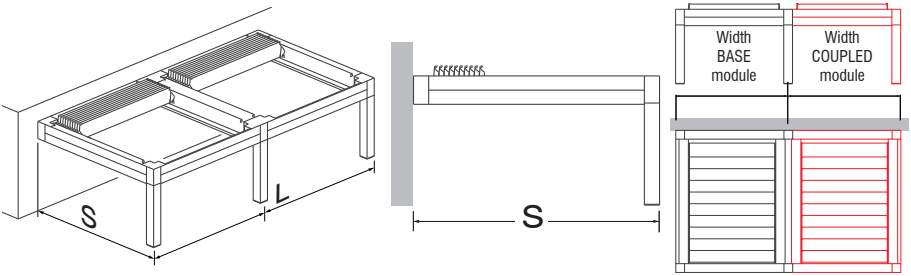
VELVET ISLAND WITH COUPLING MODULE TYPE 1 COUPLING



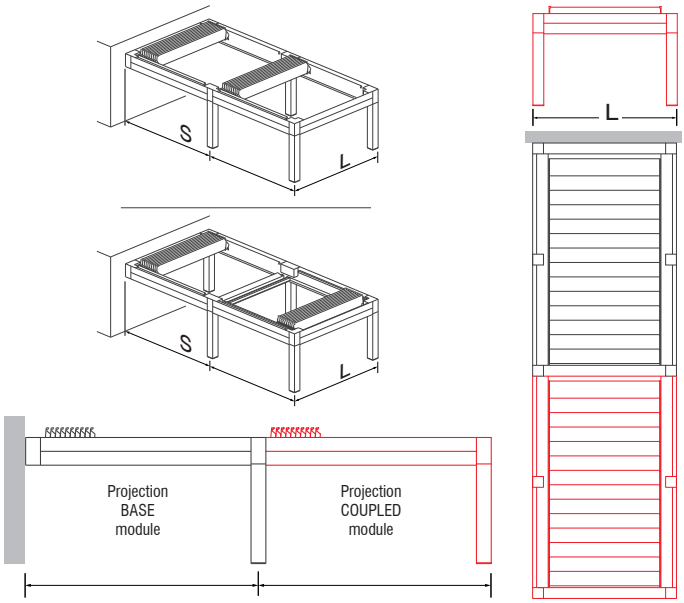
VELVET ISLAND WITH COUPLING MODULE TYPE 2 COUPLING



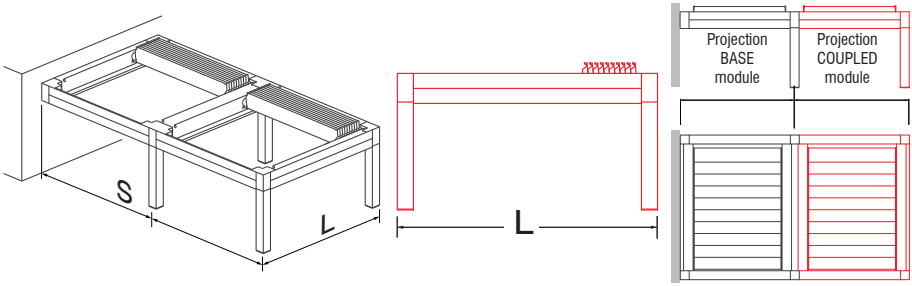
VELVET FRONTAL LEANING VERSION WITH COUPLING MODULE TYPE 1 COUPLING



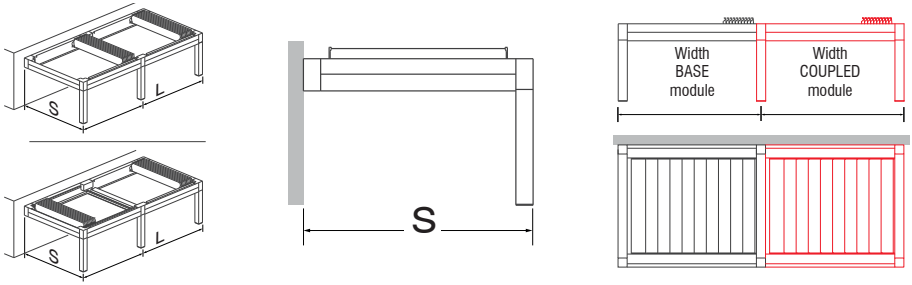
VELVET FRONTAL LEANING VERSION WITH COUPLING MODULE TYPE 2 COUPLING



VELVET LATERAL LEANING VERSION WITH COUPLING MODULE TYPE 1 COUPLING



VELVET LATERAL LEANING VERSION WITH COUPLING MODULE TYPE 2 COUPLING



CHAPTER 5: PACKING, HANDLING AND TRANSPORTATION

The Bioclimatic Pergola is packed with Nylon film and polystyrene in double walled corrugated cardboard boxes with reinforced corners to protect the product and lock the parts in place during transport.The components are packed in several parcels given the size and weight of the product (see technical table Chap. 4). The weight of each package can be high, the result is the need for manual handling in two or more persons whenever the weight exceeds 25 kg.
In order to facilitate transport by operators, check the weight of the Pergola depending on its size shown in the tehcnical table on Chapter 4.

Product integrity must be preserved until delivery to the end customer.
For transportation to the customer's premises by the Retailer and / or Manufacturer, it is required prevent scratches to the structure Damage to the product caused by the dismantling of the awning and subsequent handling and / or transportation performed after installation, are not covered by warranty. To avoid hazardous situations observe the following safety requirements:

ATTENTION: Due to the size and weight of the Pergola and of each individual packaging, make sure that for handling a sufficient number of people is available, so that the weight to be loaded by each person is not more than 25 kg in the case of manual handling (in this regard, check the weight of the Pergola depending on its size in the technical tables on Chapter 4).

CAUTION: Do not store packages in an upright position, or leave them unattended in the area of installation if the Pergola is not yet installed; avoid leaving them unattended in the presence of children. Do not store the pergola in all or part of its packaging, outside in the case of bad weather (rain).

ATTENTION: Keep out of reach of children packaging materials, they can be a source of danger to them. In particular, the Nylon film with "bubble barrier effect" could be used so as to cause suffocation.

WARNING: If the Pergola is to be mounted on a higher surface than the ground, it is necessary to define and supervise the area during the ascent to the awning, so that no one stands at any time under the suspended load. Securely fasten the packages of the awning in order to prevent it from falling.

IMPORTANT: unpack using scissors with rounded tips in order not to damage aluminium painting, do not use cutters. The packaging material should be disposed of or recycled in accordance with the regulations in force in the Country of destination of the product.

CHAPTER 6: SAFE INSTALLATION

IMPORTANT: The installation must be performed in full compliance with the installation instructions and safety rules in force in mobile sites. Be especially careful when working at height.

The installation isn't usually performed directly by staff from ***Gibus S.p.A.*** but by installers appointed by the authorized dealer, buyer or customer. The client is responsible under the law to entrust the installation to an expert staff, complying to the installation rules listed in this manual. In particular follow the "Instructions for proper installation" in Chapter 7. At the time of installation arrange all the tools mentioned on the first pages of the "Installation Instructions - VELVET line". If installers are more than one, it is necessary to appoint an operations co-ordinator.

WARNING: Before use, check that the staging, scaffoldings, ladders and all personal protective equipment, especially when working at height (harnesses, safety belts, etc..), comply with the requirements of the current law on safety and are all in good conditions.

Operators must act in accordance with the safety instructions received. Use suitable sling devices and provided PPE.

6.1 MECHANICAL STRUCTURE

WARNING: Improper installation can result in bodily injury. Read and carefully follow the installation instructions (provided with this manual) to properly secure the structure, so avoiding any risk of falls. At the time of installation arrange all the tools mentioned on the first pages of the "Installation Instructions - VELVET line".

WARNING: Check the status of the structure's housing and fixing site before installing and anchoring the structure to the floor and wall plates.

WARNING: If during installation any structural failures of the seat is noticed (the absence of the requirements for anchors fixing or other) the installers are required to provide evidence of this condition to the customer and notify the failure of the housing site in the section "Installation Notes" on paragraph 14 of this manual. If the minimum requirements are not satisfied, use other technical solutions, such as preparing a suitable foundation plinth for each floor plate or use internal counter-brackets or chemical expansion bolts until the wall is suitable for the installation.

WARNING: the choice of anchors depends on the type and condition of the housing site.

The instructions on the installation are described in annex "Installation Instructions".

6.2 ELECTRICAL CONNECTIONS

WARNING: all electrical connections must be made only by professionally qualified and trained staff, with the power supply cut off (disconnected) and in accordance with the regulations in force.

The product needs a 230V/50Hz power supply. The power pack on the bioclimatic pergolas has Class II electric insulation level for standard configuration modules: Blade movement and Spot White lights and RYB. **It is therefore not recommended to ground the structure.**

However there is Class I electric insulation when the optionals and accessories are installed: side drop awnings, antifreeze system or heaters. **In this case (Class I) the structure must be earthed.**

WARNING: the vertical side awnings have tubular motors with electrical insulation levels lower than class II. The bioclimatic pergola must be grounded according to the diagram shown in the Installation Instructions.

WARNING: even if there are accessories and parts powered at 230V/50Hz with an electrical insulation level lower than class II (for example antifreeze system or heaters applied directly to the pergola), the bioclimatic pergola must be grounded according to the diagram shown in the Installation Instructions.

The final implementation of the electrical system must be strictly carried out by a qualified electrician. Also the technical choices carried out to implement the electrical connections fall within his competence. Below are the guidelines that should be carefully considered by the installer who will be charged with the costs of such operating decisions.

Instructions for qualified electrical installers:

IMPORTANT: The electrical system must be carried out according to UNI EN 60335-1 and 2 or subsequent, in force at the time of installation. The degree of protection of the electrical must be **at least IP55**. **Install an upstream electrical switch suitable to 230V/50Hz with magnetothermal and differential functions and the features indicated in the table in paragraph 3.2.**

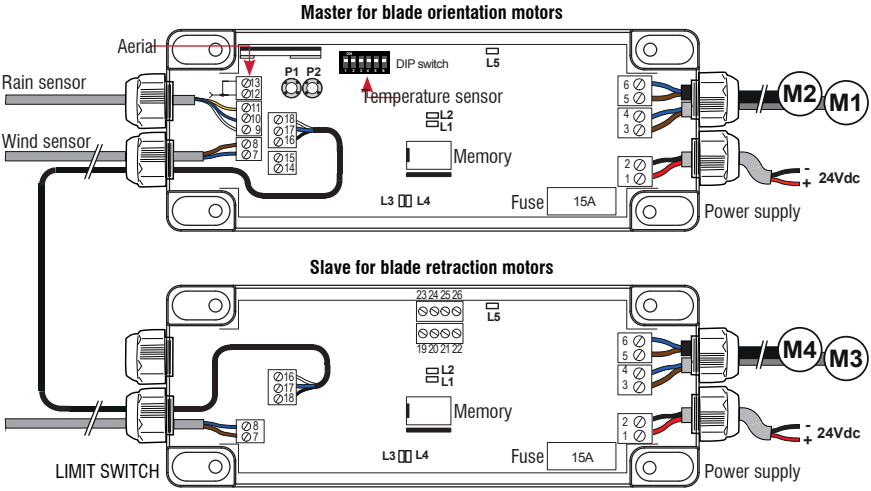
WARNING: The switch shall have at least an **IP54** degree of protection if mounted outside the area accessible to third parties, the degree of protection can be **IP40** if the switch is mounted inside or in areas not accessible to third parties. The switch must be fixed in a place from where the awning is visible, out of dangerous areas (moving parts) and at a height from the ground that complies with the regulations in force.

IMPORTANT! Check that the mains voltage is 230 V - 50 Hz.
Standard equipment is meant to be connected to 230v/50Hz electrical mains; for the installation in countries with different features please specify the requirements when you place the order! **The electrical supply cable must be of double insulation type. Provide a cable with the features indicated in the table in paragraph 3.2.**

WARNING: if the Pergola is installed at a height from the walkable floor lowest than 2,30 m in its lowest travel point, **it is necessary to use the "man present" control.**

IMPORTANT! The wiring diagrams and installation instructions for the use of electronic control units are annexed to the control units themselves and should accompany this manual along with the Installation Instructions and be carefully stored for subsequent consultations.

6.3 ELECTRICAL WIRING AND CONNECTIONS CONTROL UNIT VELVET

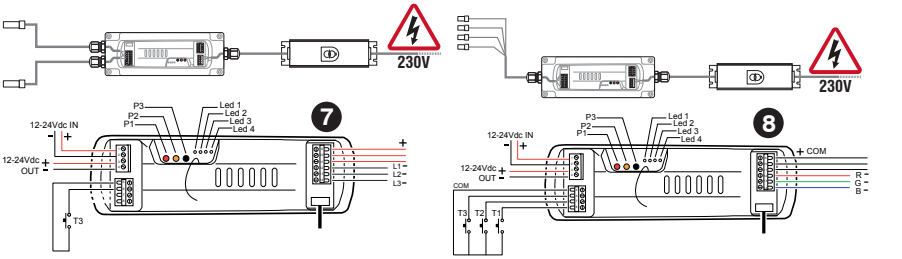


SIGNAL					
1	POWER SUPPLY (+24Vdc)	13	GND AERIAL		
2	POWER SUPPLY (GND)	14	TEMPERATURE SENSOR (black)		
3	MOTOR 1 / 3 (OPEN)	15	TEMPERATURE SENSOR (white)		
4	MOTOR 1 / 3 (CLOSE)	16	RS485	GND	
5	MOTOR 2 / 4 (OPEN)	17	RS485	B	
6	MOTOR 2 / 4 (CLOSE)	18	RS485	A	
7 M	(master) WIND SENSOR (blue)	19	GND ENCODER M3		
8 M	(master) WIND SENSOR (brown)	20	ENCODER A M3		
7 S	(slave) REED CONTACT	21	ENCODER B M3		
8 S	(slave) REED CONTACT	22	+5 VDC ENCODER M3		
9	RAIN SENSOR (white, 12V)	23	+5 VDC ENCODER M4		
10	RAIN SENSOR (blue, SIGNAL)	24	ENCODER A M4		
11	RAIN SENSOR (yellow, GND)	25	ENCODER B M4		
12	RF AERIAL	26	GND ENCODER M4		

DIP	MEANING
1 - 2 - 3	SETTING OF WIND SENSOR THRESHOLD
4	MOTOR FOR ORIENTATION OR RETRACTION CONTROL
6	MAXIMUM MOTOR CURRENT THRESHOLD SET DURING CONFIGURATION

Sensor configuration:
- The temperature sensor must be activated.
- The snow sensor (rain and temperature combined) must be activated.
- The rain sensor is already activated.
- The wind sensor is already activated.

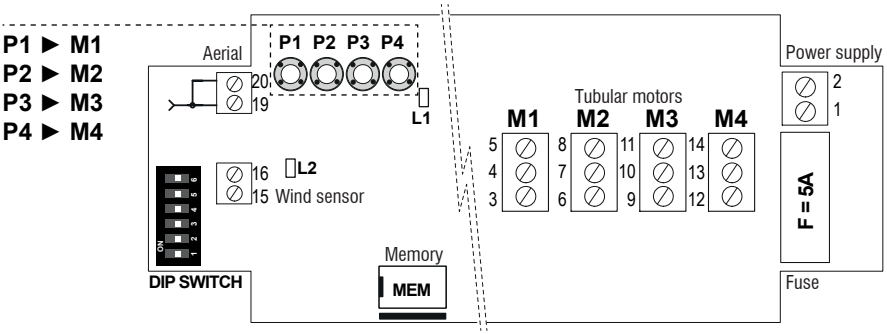
ATTENTION: The electronic board is protected by a 15A fuse. The maximum permitted power is 360W.



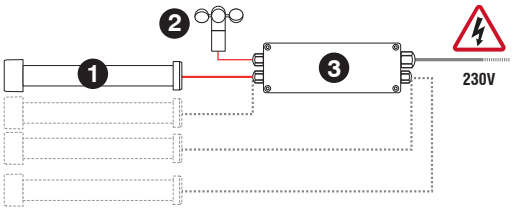
DESCRIPTION OF LIGHTING WIRING COMPONENTS			
7	CONTROL UNIT WITH POWER PACK FOR PERIMETER LEDS	8	CONTROL UNIT WITH POWER PACK FOR BRISE SOLEIL BLADE LEDS

For further information about the control unit for the motors, sensors, lighting control unit, see the specific instructions enclosed with the control unit.

6.4 ELECTRICAL WIRING AND CONNECTIONS CONTROL UNIT OF SIDE DROP AWNINGS



SIGNAL			
1	POWER SUPPLY 230 Vac (LIVE)	12	MOTOR 4 (CLOSE)
2	POWER SUPPLY 230 Vac (NEUTRAL)	13	MOTOR 4 COMMON
3	MOTOR 1 (CLOSE)	14	MOTOR 4 (OPEN)
4	MOTOR 1 COMMON	15	WIND SENSOR (blue)
5	MOTOR 1 (OPEN)	16	WIND SENSOR (brown)
6	MOTOR 2 (CLOSE)	19	RF AERIAL
7	MOTOR 2 COMMON	20	GND AERIAL
8	MOTOR 2 (OPEN)	L1	ON = POWER ON
9	MOTOR 3 (CLOSE)	L2	FLASHING = WIND ALARM
10	MOTOR 3 COMMON	P1-P4	PROGRAMMING BUTTONS
11	MOTOR 3 (OPEN)		



DESCRIPTION OF MOTOR AND SENSOR WIRING COMPONENTS	
1	TUBULAR MOTORS
2	WIND SENSOR
3	CONTROL UNIT OF SIDE DROP AWNINGS

6.5 RADIO CONTROL

The radio control is a multi-channel UHF (Ultra high frequency) band transmitter for private use, automatic opening, ON/OFF control or light dimming, etc. The transmitted signal provides the rolling code to guarantee secrecy. Carrier wave frequency: 868.3 MHz. Operating temperature: -10° +55°. The 9 channel/63 position version is given as an example.

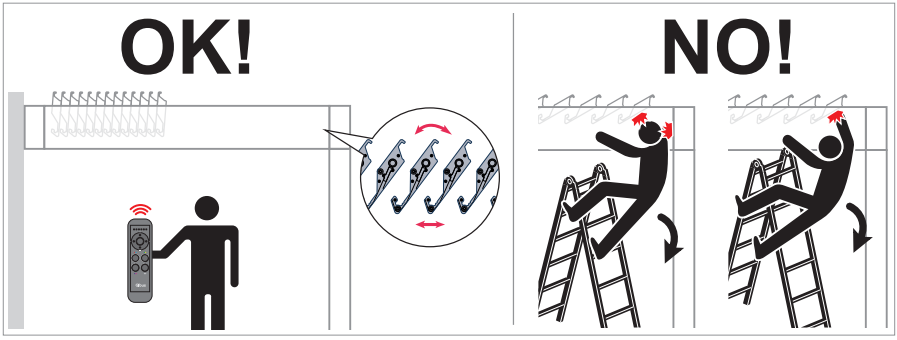
The transmitter is already matched to the motor control unit for the Bioclimatic Pergola. The motor control unit is stored in the transmitter channel/group 1.

CHAPTER 7: INSTRUCTIONS FOR PROPER INSTALLATION

WARNING: the operations for installation and start-up must be performed only by professionally qualified and trained staff, in accordance with the regulations in force.

IMPORTANT: To properly set up the Pergola, follow the "Installation Instructions" attached to this manual and included in the accessory box or in another part of the package.

WARNING: the adjustment must be made under safe conditions. There is a residual risk of crushing/shearing and trapping your fingers, hands or head; therefore, position yourself outside of the dangerous area.
In particular, in order to avoid the risk of crushing/shearing injuries, do not put any part of the body between the adjustable blades or between the adjustable blades and parts of the fixed housing structure (guttering, etc.). This is extremely important when blades are moving.



CAUTION: The installation includes always several motors with remote control. Follow the "Installation Instructions" attached to this manual or enclosed in the accessory box or part of the packaging.

IMPORTANT: after installation the declaration for proper installation must be compiled by the installer (Sec. 14 par. 1).

CHAPTER 8: OPERATION AND USE OF THE PERGOLA

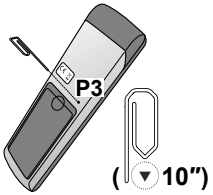
WARNING FOR THE USER: Pay attention to the signs placed in dangerous areas. Before operating the Pergola carefully read the Chap. 2 "SAFETY PRECAUTIONS" Use the Bioclimatic Pergola only as a protection from the sun, rain and for the purposes described in this manual (see chap. 2.1 "PURPOSE AND INTENDED USES OF THE PERGOLA").

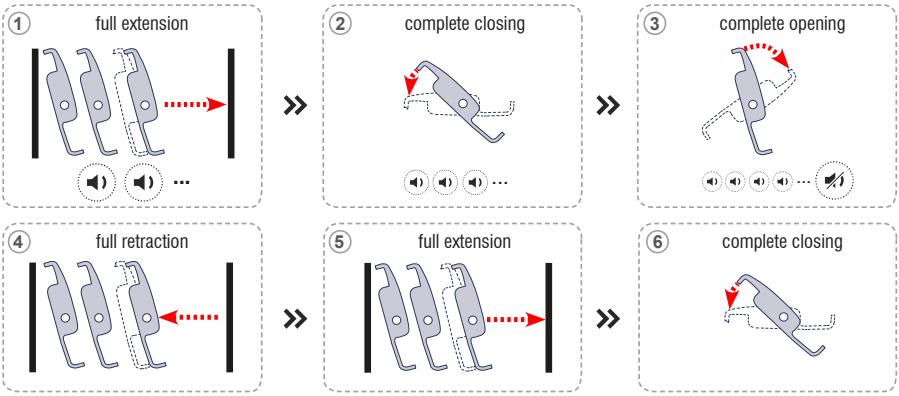
WARNING: Before operating the Bioclimatic pergola, check that there are no persons or objects that prevent the brise soleil blades from opening or closing (especially when snow is on the top of them; the brise-soleil blades must be retracted before snow has accumulated onto them. Once snow has deposited on the blades, it can prevent the blades from being retracted and folded).
Make sure there is nothing between the adjustable blades and the side gutters and blades. There could be a residual risk of crushing or trapping fingers (see the figure in Chapter 7).

Follow the previous paragraph instructions of this manual and the attached Installation Instructions to commission the pergola.

The control unit manage the motors and the transmitter (radio control) have been already set up at the factory. **After the electrical connection, match the limits from the transmitter without entering the control unit.**

To make self-learning of limit switches, position on the channel where the motors are stored (pressing the button over the transmitter already stored). Press the **P3** key of the **stored** transmitter and keep it pressed. When the profiles start moving autonomously, it is possible to release the P3 key and wait for the end of the 6 handling phases.





Wait for a few minutes and then the bioclimatic pergola is ready to be used.

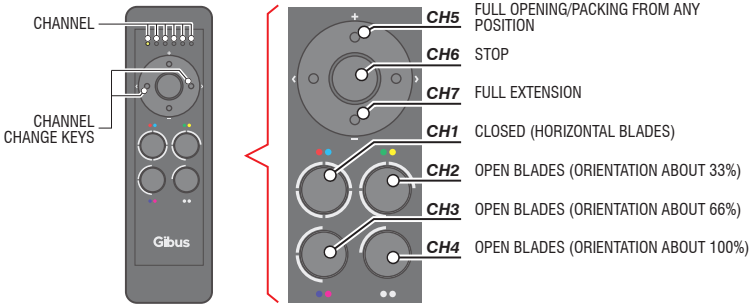
IMPORTANT!: the wind and rain sensors, if any, have already been set up at the factory. Position them properly and set the thresholds according to the instructions given in the sensor boxes. For the other sensors, follow the specific installation instructions.

The bioclimatic pergola can be opened and closed using a portable or wall fixed remote control (see paragraph 6.3), the bioclimatic pergola must only be activated from a position that gives a full viewpoint of the blade movement.

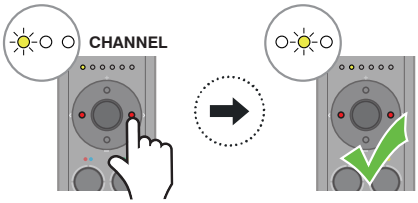
IMPORTANT! The characteristics and operation of the drive systems are described in the manuals herein attached, related to the engine, to the automatisms and commands required.

CHANNEL TRANSMITTER WITH PROGRAMMED CHANNEL FOR THE MOTOR

NOTE: The 9 channel/63 position version is given as an example

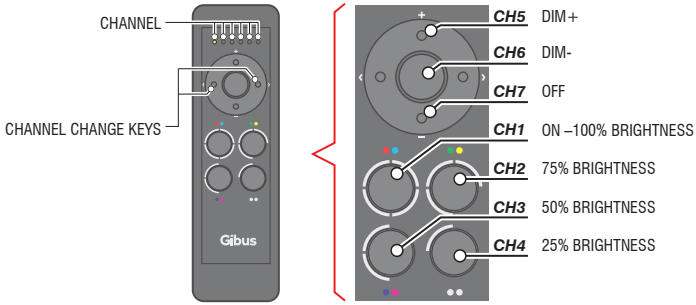


6-channel mode: the 6 leds indicate 6 command groups. press the keys “a” or “b” to switch between channels of the transmitter. the selection remains in memory, even with the transmitter off,
until the next change. it is sufficient to press a key of any channel to reactivate the last selection.



TRANSMITTER WITH PROGRAMMED CHANNEL FOR BLADE SPOT LEDS

NOTE: The 9 channel/63 position version is given as an example

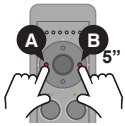


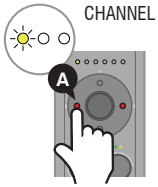
To switch on and off, and to operate the RGB lights, see the specific manual attached.

MULTI-TRANSMITTER MODE (UP TO 9 CHANNELS)

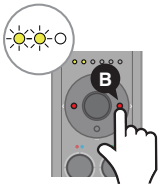
The multi-transmitter mode is necessary when the pergola has more than 6 complements / accessories to associate.

It is possible to activate 3 more control groups in addition to the 6: make sure that the LEDs are off; after which press and hold the two buttons “A” AND “B” simultaneously for 5”. The LEDS will turn on in sequence from 6 to 1, and then stay on for a few seconds.





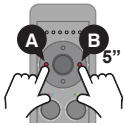
KEY “A”: 1÷6 CHANNELS



KEY “B”: 7÷9 CHANNELS

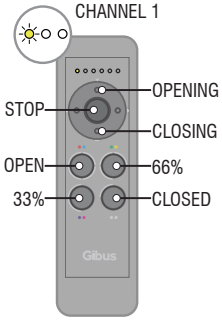
With this function activated, **press the key “A” of the transmitter to manage the standard groups from 1 to 6 (for each channel the corresponding led comes on).**
Press the key “B” of the transmitter to manage additional groups from 7 to 9 (a couple of leds turn on each channel).

To deactivate the 3 groups, simply press and hold the two “A” AND “B” buttons simultaneously for 5”. The numbers will turn on in sequence from 6 to 1, and then stay on for a few seconds.

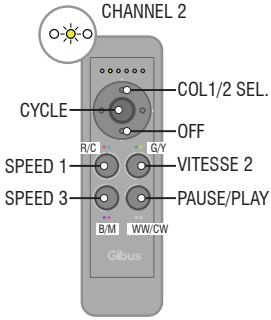


EXAMPLES OF TRANSMITTER WITH PROGRAMMED CHANNELS:

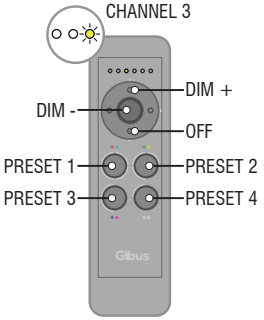
PERGOLA COMMANDS



RGB DIMMER COMMANDS



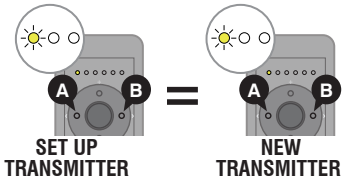
DIMMER COMMANDS



In the multi-module versions the commands can be independent (one same command is programmed in each single module and consequently associated with multiple channels), or synchronized (the command is associated with a same channel to manage all modules simultaneously).

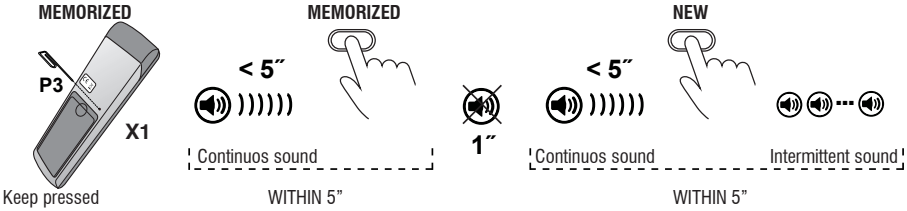
SET UP BY RADIO OF A NEW REMOTE CONTROL FROM AN ALREADY SET UP REMOTE CONTROL

ATTENTION: copy only one channel per time. Position on the channel to copy (using the keys "A" or "B") both on the set up transmitter and the new one:



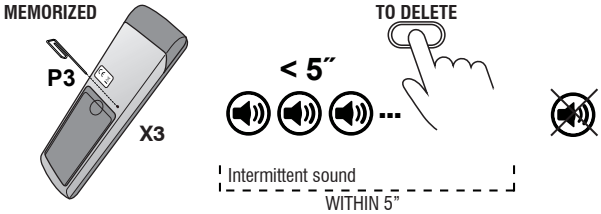
REMOTE DELETION OF A RADIO CODE

Press p3 of the transmitter already memorized and hold. The buzzer emits a continuous sound. Within 5″, press a key of the **set up transmitter**. The buzzer stops for 1 second and emits the sound again. Within 5″, press the button to memorize of the **new transmitter**. Once the memorization is successfully completed, the buzzer emits a fast intermittent sound.



REMOTE DELETION OF A RADIO CODE

Press the button P3 of the memorized transmitter 3 times and hold. The buzzer emits a slow intermittent sound. Press a button relative to the code to be deleted within 5 seconds. Upon completion of deletion, the buzzer will stop.



For other functions and operations with the radio control, see the instructions attached and relevant to the specific transmitter and the control unit.

CAUTION: Direct the blades partially opened in the case of very strong rain, hail, strong wind, snow and ice; it is dangerous to leave the blades closed in these cases, it can cause injury to persons and damage to property.

IMPORTANT! If something has blocked the opening or closing of the blades, continue the opening or closing with the "man present" command.

The Bioclimatic Pergola is recommended to be exposed to a maximum wind load equal to 270 Newton/m^2 corresponding to a continuous wind at a maximum speed of 70 Km/h according to the Beaufort scale. For safety reasons, it is advisable to retract the blades before this limit is reached. If no sensor is installed, control the blades manually if there is strong wind.

ATTENTION: never perform repeated opening and closing operations with the engine, this could cause the motor to overheat, which could block it, and make it impossible to perform the necessary movements (in the case of strong wind or snow).

If the bioclimatic pergola's blades were closed and ice or snow have deposited on them, do not move the blades until all the snow has been removed or the ice has melted. Otherwise, the movements could be blocked and the components damaged.

IMPORTANT! The operation with ice may damage the Bioclimatic Pergola! Do not operate the Bioclimatic Pergola before having first removed the snow and the ice formed.

IMPORTANT!: in the case of failures, turn to you dealer and if required only ask for Gibus original spare parts.

ATTENTION! In the case of fault or when searching for faults, respect the safety measures. In particular when searching for or repairing any faults to the electric components, there is the risk or fatal electric shock. only qualified electricians must carry out the maintenance to the electrical parts.

CHAPTER 9: MAINTENANCE

Operations of **installation and initial start-up, adjustment and obligatory maintenance** should be performed only by qualified technical personnel and specialized for such tasks. **Contact the Technical Service Department of your Gibus dealer.**

IMPORTANT: it is compulsory to ask a Gibus technician for an extraordinary maintenance operation within the 2nd year from the installation of the pergola so that the warranty will also cover the 3rd year. A compulsory maintenance operation within the end of the 3rd year will extend the warranty to the 4th year and a compulsory maintenance in the 4th year will extend the warranty to the 5th year. If the maintenance operations are not carried out, the Gibus warranty will no longer be valid. Use original Gibus spare parts; otherwise, the warranty will be voided.

Compulsory maintenance required by the end of the 2nd year and the following maintenance operations for extending the warranty year after year must be carried out by a Gibus technician and must minimally include an **inspection of the correct blade movement, positioning of the endstops in opening and closing, making sure that the wind sensor is working if it is present and the conditions of the seals.**
Also check the recommendations in paragraph 9.2 titled "MAINTENANCE OF THE PERGOLA", and those in the "Product Maintenance Technical Sheet" available in the reserved area of the www.gibus.it site. Also, the operations reported in the following paragraphs must be carried out by the owner or by a specialist **paying attention to the following warnings**:

ATTENTION: The operations of routine or unscheduled maintenance must be carried out safely, after cutting the power supply off. Before resume operating the Pergola carefully read the chap. 2 "SAFETY PRECAUTIONS".

ATTENTION: pay attention to the safety directions given in Chapter 7 to avoid squeezing/cutting.

CAUTION: Cleaning with ladders, scaffolding or other is reserved for specialized personnel who must carry out the operations in accordance with current directives on safety and must use personal protective equipment such as safety harness with sling.

9.1 CLEANING THE BRISE SOLEIL BLADES

The brise soleil blades have to be opened to guarantee it works correctly and to maintain their attractive appearance by eliminating any dust or other materials that have deposited on them, thus delaying as much as possible the formation of permanent dirt. It is therefore advisable:

- **at least twice a year** (in spring before use during the summer season and in autumn before winter closure). Check the state of the blades, the guide grooves of the drive bar, the blade gutters and perimeter gutters. Remove any leaves, twigs, pines or anything else that may have deposited on them.
- **if necessary** clean the blades and the fabric by vacuuming the dust and using a damp sponge or cloth with lukewarm water and non-aggressive products.

- **non utilizzare solventi – ammoniaca – idrocarburi;**
- **fare asciugare with the blades placed vertically dopo la pulizia.**

In caso di dubbio rivolgersi al rivenditore.

9.2 MAINTENANCE OF THE PERGOLA

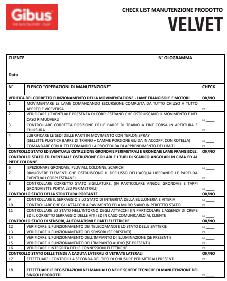
IMPORTANT: please open and close the awning periodically and check periodically the correct operation of the parts. Do not leave the product unused for long periods.

In order to keep the product in perfect operating conditions and safe proceed as follows:

- **Yearly** (or after any extreme weather events):
  - visually inspect the bearing structure;
  - inspection of the tightening and the integrity of bolts and nuts, as well as screws. Make sure that the ground and the wall fixing devices are in perfect condition. Check the condition of the floor around the fixing devices (in particular, make sure that there are no cracks and that the screws are properly tightened);
  - make sure that the gutters along the perimeter and the gutters of the brise soleil blades are clear of leaves or other debris. Remove the elements that prevent water from flowing out and lubricate the moving parts with a drop of Teflon spray, if necessary.
  - check the operation of the remote controls, the sensors and the lighting installation. Check the efficiency of the grounding.
  - clean the surface, if it is necessary, to remove dirt and dust.
- Check the belt tension
- Clean the surface with a paper rag and a wet sponge as explained in the previous paragraph.

9.3 EXTRAORDINARY MAINTENANCE

For extraordinary Maintenance within the 2nd year from installation and in subsequent years (mandatory for extending the warranty) follow the other regulations found in the “Product Maintenance Check List”.


Gibus

CHECK LIST MANUTENZIONE PRODOTTO
VELVET

CLIENTE Data		N° OLOGRAMMA
N°	**ELENCO “OPERAZIONI DI MANUTENZIONE”**	**CHECK**
VERIFICA DEL CORRETTO FUNZIONAMENTO DELLA MOVIMENTAZIONE - LAME FRANGISOLE E MOTORI		**OK/NO**
1	MOVIMENTARE LE LAME COMANDANDO ESCURSIONE COMPLETA DA TUTTO CHIUSO A TUTTO APERTO E VICEVERSA	□ ____
2	VERIFICARE L’EVENTUALE PRESENZA DI CORPI ESTRANEI CHE OSTRUISCANO IL MOVIMENTO E NEL CASO RIMUOVERLI	□ ____
3	CONTROLLARE CORRETTA POSIZIONE DELLE BARRE DI TRAINO A FINE CORSA IN APERTURA E CHIUSURA	□ ____
4	LUBRIFICARE LE SEDI DELLE PARTI IN MOVIMENTO CON TEFLON SPRAY (SELLETTE PLASTICA BARRE DI TRAINO – CAMME PORZIONE GUIDA IN ACCOPP. CON ROTELLA)	□ ____
5	COMANDARE CON IL TELECOMANDO LA PROCEDURA DI APPRENDIMENTO DEI LIMITI	□ ____
CONTROLLO STATO ED EVENTUALE OSTRUZIONE GRONDAIE PERIMETRALI E GRONDAIE LAME FRANGISOLE. CONTROLLO STATO ED EVENTUALE OSTRUZIONE COLLARI E I TUBI DI SCARICO ANGOLARI IN CIMA ED AL PIEDE COLONNE.		**OK/NO**
6	ISPEZIONARE GRONDAIE, PLUVIALI, COLONNE, SCARICHI	□ ____
7	RIMUOVERE ELEMENTI CHE OSTRUISCONO IL DEFLUSSO DELL’ACQUA LIBERANDO LE PARTI DA EVENTUALI CORPI ESTRANEI	□ ____
8	CONTROLLARE CORRETTO STATO SIGILLATURE: (IN PARTICOLARE ANGOLI GRONDAIE E TAPPI GRONDAIETTE PORTA LED PERIMETRALI)	□ ____
CONTROLLO STATO DELLA STRUTTURA PORTANTE		**OK/NO**
9	CONTROLLARE IL SERRAGGIO E LO STATO DI INTEGRITÀ DELLA BULLONERIA E VITERIA	□ ____
10	CONTROLLARE CHE GLI ATTACCHI A PAVIMENTO ED A MURO SIANO IN PERFETTO STATO	□ ____
11	CONTROLLARE LO STATO NELL’INTORNO DEGLI ATTACCHI (IN PARTICOLARE L’ASSENZA DI CREPE ED IL CORRETTO SERRAGGIO DELLE VITI) ED IN CASO COMUNICARLO AL CLIENTE	□ ____
CONTROLLO STATO DI SENSORI, AUTOMATISMI E PARTI ELETTRICHE		**OK/NO**
12	VERIFICARE IL FUNZIONAMENTO DEI TELECOMANDI E LO STATO DELLE BATTERIE	□ ____
13	VERIFICARE IL FUNZIONAMENTO DEI SENSORI (SE PRESENTI)	□ ____
14	VERIFICARE IL FUNZIONAMENTO DELL’IMPIANTO DI ILLUMINAZIONE (SE PRESENTI)	□ ____
15	VERIFICARE IL FUNZIONAMENTO DELL’IMPIANTO AUDIO (SE PRESENTI)	□ ____
16	VERIFICARE L’INTEGRITÀ DELLE CONNESSIONI ELETTRICHE	□ ____
CONTROLLO STATO DELLE TENDE A CADUTA LATERALI O VETRATE LATERALI		**OK/NO**
17	EFFETTUARE I CONTROLLI A SECONDA DEL TIPO DI CHIUSURE PERIMETRALI PRESENTI	□ ____
18	**EFFETTUARE LE REGISTRAZIONI NEI MANUALI O NELLE SCHEDE TECNICHE DI MANUTENZIONE DEI SINGOLI PRODOTTI**	□ ____

ATTENTION!: The maintenance work is to be carried out by qualified and trained personnel. Call for a Gibus specialised technician.

CHAPTER 10: DISMANTLING AND DISPOSAL

CAUTION: dismantling of the Pergola must be carried out by qualified and trained staff. Ask for a specialized Gibus technician at the Service Department.

CAUTION: dismantling of the Pergola must be carried out applying all the safety provisions as per installation: see chapter “SAFE INSTALLATION” and chapter “INSTRUCTIONS FOR PROPER INSTALLATION” with the help of the installation instructions.

RECOMENDATIONS FOR THE OPERATOR IN CHARGE OF DISMANTLING:
- the operations must be carried out with the brise soleil blades placed vertically;
- disconnect the power supply to the system;
- disconnect the system downstream the cut-off switch,
- disconnect the engine,
- disconnect the control units.

10.1 DISPOSAL OF THE PERGOLA

The Pergola is not built with materials considered hazardous. There are no special instructions for destruction or disposal. The components making up the Pergola are given in Chapter 3. Pay close attention to management of Waste Electrical and Electronic Equipment (WEEE directive).

IMPORTANT!: Follow the regulations in place at the time of disposal of the Pergola to dispose of the materials constituting it.

ATENTION: please note that for any detail of the Pergola to be separately disposed of, always refer to the current standards on the matter.

To dismantle the Pergola follow the regulations imposed by the laws in force in the country of use. Disconnect the Pergola from the power supply. Disassembly the individual components of the Pergola grouping them according to their composition. Then scrap in accordance with the laws in force in the country of use.

Most significant materials making up the bioclimatic pergola awning:

Aluminum
Steel
Plastic

Electrical and electronic equipment and EEE equipment.
Under art. 14 of the 2012/19/EU DIRECTIVE OF THE EUROPEAN PARLIAMENT AND COUNCIL of 4 July 2012 on waste electrical and electronic equipment (WEEE), the crossed bin symbol **(on some of the parts and components of the product)** indicates that these parts and components are electrical or electronic products and must be collect-ed separately from other waste at the end of their useful life and not with mixed urban waste. This is to encourage correct recycling/disposal. Appropriate waste sorting for the subsequent recycling, treatment and environ-mentally compatible disposal of the disused electric and electronic equipment avoids nega-tive effects on the environment or human health and favours the re-use or recycling of the electric and electronic equipment's materials. The same symbol indicates electrical or electronic products for the "Waste Electrical and Electronic Equipment Regulations 2013".

CHAPTER 11: TROUBLESHOOTING

WARNING: in case of troubleshooting you must comply with the relevant safety requirements; in particular while searching for any faults or repairs of the power supply system, there is a risk of fatal electric shock. maintenance on electrical parts must be carried out by qualified personnel only.

WARNING: risk of crushing.
in particular, in order to avoid the risk of crushing/shearing injuries, do not put any part of the body between the adjustable blades or between the adjustable blades and parts of the fixed housing structure (guttering, etc.). This is extremely important when blades are moving.

The following table shows the solution to more common problems. In the presence of problems other than those listed contact the Service Department.

11.1 TABLE OF FAULTS AND DEFECTS

PROBLEMS	CAUSES	REMEDIES
The remote control does not respond to the controls.	The remote control isn't working.	Unlock it by pressing one of the top two small buttons (the buttons that are used for the selection of the group or the channel) for 10 seconds until the LEDs flash.
The motors are noisy.	Faulty motor.	Request technical assistance.
The motors do not move.	Incorrect wiring.	Check the electric circuit against the attached wiring diagrams.
	Faulty motor.	Check the motor and replace it if necessary.
	Remote batteries flat or faulty.	Change the batteries or the remote control.
The blades do not open perfectly horizontally or they do not complete the run (0°-85°).	Incorrectly regulated endstops.	Repeat the learning procedure and regulate the endstops.
	Something has fallen into the movement area and blocks the movement: side tracks, perimeter gutters, etc.	Check there are no pinecones, twigs, nests, pine needles or anything else and remove them.

PROBLEMS	CAUSES	REMEDIES
The blades do not open from the closed position.	The resin has deposited on the perimeter seals or between the blades.	Clean and lubricate the seals.
	There is some ice between the blades.	Wait for the temperature is raise.
	The rain alarm is raised and it is raining.	Wait for the rain to stop and disactivate the rain sensor (procedure in chapter 2).
	The pergola is not power supplied.	Power supply the pergola.
	The remote control is not matched or the batteries are drained or it is broken.	Match the remote control or replace the batteries.
The blades advance in non-parallel mode.	Drive belt broken	Replace the drive belt.
The blades are blocked in a different position from the required one.	Something has fallen into the movement area and blocks the movement: side tracks, perimeter gutters, etc.	Move the blades with the “man present” command and/or remove the foreign body that is blocking them.
After the opening control, the blades are in a partially opened position at about 33%.	Less than 6 hours have passed since the rain has stopped and the rain alarm is active.	Control the opening with the operator present or disable the rain sensor (chapter 2).
The blades are blocked in a partially opened position of about 33%, and don’t move.	At least 60 seconds have passed from the detection of wind beyond the set threshold; the wind alarm is enabled.	Wait for the breeze decreases.
The blades are blocked in a partially blocked position of about 66%, and don’t move.	The temperature is lower than 2°C and the alarm is enabled; if it is also raining and the snow sensor is enabled.	Control the displacement with the operator present.
The blades do not open when there is a strong wind.	Wind sensor sensitivity programmed for a too high limit.	Reprogram the anemometer limits.
	Anemometer incorrectly wired to the control unit.	Check the connections to the terminals.
	Faulty anemometer.	Replace the anemometer.
When the control unit is turned on it gives an intermittent beep and L3 flashes.	Control unit not configured.	Configure the control unit, see paragraph 2.
After configuration, L3 flashes and the beep continues.	Control unit not configured correctly.	Repeat the configuration procedure, ensuring that the dipswitch is NOT moved at the end.
When P1 and P2 are pressed twice, the configuration does not begin.	P1 and P2 were not pressed simultaneously.	P1 and P2 must be pressed simultaneously. No more than 1 second must pass between pressing the first and second.
After resetting, the control unit does not respond to the commands.	DIP6 on the ON position.	Check that DIP6 is OFF.
The continuous beep is not heard when a transmitter is being stored.	Keys pressed at incorrect times.	No more than 1 second must pass between pressing one key and the next.
A transmitter/remote control cannot be stored.	The radio code is already stored or the memory is full.	Add a transmitter/remote control.
Malfunction not included among the above.		Check the specific instruction manuals for the control units attached to this manual, or contact the technical service centre.

CHAPTER 12: CONVENTIONAL WARRANTY UP TO THE FIFTH YEAR

For EU countries + Switzerland and the UK, Gibus S.p.a. offers the conventional guarantee pursuant to art. 135 - quinquies Legislative Decree 206/2005 - Consumer Code - and better explained in the following Articles. Gibus' conventional guarantee does not, in any way, prejudice the rights and remedies expressly provided for by the law in favor of the consumer exclusively towards the seller (see the following articles 2 and 3) ("Legal Guarantee" articles 128 et seq. of Legislative Decree No. 206/2005) for lack of conformity of the product.

Art.1 GIBUS PRODUCTS

Each GIBUS product has the characteristics described in the price list/sales catalog that is in force at the moment the order is received by Gibus S.p.A. The characteristics of the fabrics are described in the respective GIBUS samples.

Art.2 LEGAL GUARANTEE OF THE SELLER

The goods are guaranteed for a period of two years from the date of delivery for any lack of conformity existing at that time. The two-year legal guarantee can be enforced by the consumer exclusively against the seller pursuant to art. 133 Legislative Decree No. 206/2005.

Art.3 REMEDIES PROVIDED FOR BY THE LEGAL GUARANTEE (ART. 135-BIS OF LEGISLATIVE DECREE 206/2005)

In the event of a lack of conformity of the product sold, the consumer may request the seller either repair or replace the goods, provided that the chosen remedy is not impossible or, compared to the alternative remedy, does not impose disproportionate costs on the seller. Should the requested remedy be, pursuant to Article 135-bis of Legislative Decree no. 206/2005, impossible or excessively burdensome and entailing disproportionate costs for the seller, the consumer may request that the seller reduce the price or terminate the contract. The latter remedies may be also requested by the consumer from the seller in other cases specifically ruled by art. 135-bis of Legislative Decree 206/2005 to which reference is made. In any case, it is specified that, pursuant to art. 135-bis, paragraph 5, Legislative Decree 206/2005, a minor lack of conformity will not give the consumer the right to terminate the sales contract.

Art.4 CONVENTIONAL GUARANTEE

GIBUS S.p.A., with registered office in 35030 Saccolongo (PD) via Einaudi 35, offers the "consumer" as defined by art. 3, paragraph 1, letter a) of Legislative Decree 206/2005, the conventional product warranty starting from the 3rd year and up to and including the 5th year, starting from the date of purchase of the goods under the conditions specified below.

Art.5 OBJECT OF THE CONVENTIONAL GUARANTEE: EXTENSION OF THE DURATION

The Gibus conventional warranty covers the spare parts of the product on the condition that the mandatory maintenance is carried out by an authorized Gibus Dealer, with costs entirely borne by the consumer, of the Bioclimatic Pergolas, 90° Pergolas, Bioclimatic Pergolas with retractable roof (according to the instructions given in the "Use and Maintenance Manual" attached to the product), to be carried out by the end of the 2nd year from the date of installation and every year up to the 5th year. The warranty for the 3rd, 4th and 5th year consists only in the replacement of components recognized as defective by GIBUS S.p.A. and does not cover the costs of labor, travel, disassembly/assembly and transport that will be borne by the customer. The costs deriving from the right to call of the authorized Gibus Dealer will also be borne by the customer.

Art.6 LIMITS OF THE CONVENTIONAL GUARANTEE

The Gibus conventional guarantee covers the cost of spare parts in the following percentages:

- In the 3rd year, the Guarantee covers 60% of the value of the spare part determined by the price shown by Gibus on the sales invoice to the dealer or, if not specifically stated therein, by the price charged for the spare part at the time of sale to the dealer,
- In the 4th year, the Guarantee covers 50% of the value of the spare part determined by the price shown by Gibus on the sales invoice to the dealer, or, if not specifically stated therein, by the price charged for the spare part at the time of sale to the dealer;
- In the 5th year, the Guarantee covers 35% of the value of the spare part determined by the price shown by Gibus on the sales invoice to the dealer or, if not specifically stated therein, by the price charged for the spare part at the time of sale to the dealer; - The Cristal and the LEDs, if present, are excluded from the conventional guarantee.

Art.7 WITHOUT EXPENSES

The legal guarantee offered by the seller and the conventional guarantee by Gibus belong to the Customer free of charge. It is the customer's responsibility to prove that the guarantee is still valid by means of the delivery document issued by the seller or other similar document (i.e. receipt, cash receipt or similar) which shows the name of the seller and the date on which the delivery of the goods took place, as well as the evidence of the execution of the obligatory maintenance (i.e. receipt, cash receipt or similar which must be equal to a reasonable fee compared to the maintenance service) in the event the Customer has the "Conventional Guarantee".

Art.8 TERRITORIAL EXTENSION

The legal guarantee referred to in Legislative Decree 206/2005 is valid for Italy. In the EU countries, the legislation envisaged for each country applies to the legal guarantee for the sale of consumer goods. In any case, in EU countries, the seller must grant the consumer a minimum two-year guarantee. The GIBUS conventional guarantee in the terms specified in this agreement is valid in Italy, in EU countries, in Switzerland and in the UK. For extra EU countries, the legal and conventional guarantees are not effective.

Art.9 FURTHER CONDITIONS FOR THE VALIDITY OF THE CONVENTIONAL GUARANTEE

In order for the Gibus conventional guarantee to be considered valid and effective pursuant to this document, in addition to the above, all the following additional conditions must be met:

A. the permitted use and purposes of the product shall comply with the instructions given in the "Use and maintenance manual";
B. the rules of use and periodic maintenance shall comply with the instructions given in the "Use and maintenance manual";
C. the annual compulsory maintenance shall be carried out and proved up to the 5th year;
D. the installation and mandatory annual maintenance shall be carried out exclusively by an authorized GIBUS dealer; both installation and maintenance operations will be valid only if recorded in the "Use and Maintenance manual" and in the "Product Maintenance Check List";
E. the electrical and electronic parts (motor – automatic devices - switches) concerning the product shall be supplied by GIBUS; if electrical and electronic parts are not supplied by GIBUS or are tampered with, the guarantee will not be effective.

Each Gibus Product is unique, uniquely recognizable and traceable, thanks to a 3D Gibus-branded hologram that includes a unique alphanumeric serial number. The Gibus conventional guarantee will be recognized only if there is the Gibus hologram and "serial number" and after Gibus has checked for the compliance with the requirements and conditions set out in this chapter and in the "Use and maintenance manual" of the product.

Art.10 EXCLUSIONS

In addition to the other cases mentioned above, the conventional guarantee is not effective if the product is used for purposes other than those for which it is designed or in ways prohibited by the instructions given in the "Use and Maintenance Manual", which is attached to the product and delivered by the authorized seller; the conventional guarantee is also excluded if the product is used in any commercial, entrepreneurial or professional businesses, unless it is agreed upon differently.
Furthermore, the following is not covered by the conventional guarantee: non-conformities and/or defects due to negligence or carelessness in use (such as failure to comply with the instructions for the correct operation of the product), improper installation, installation or maintenance carried out by personnel who are not employed by an authorized Gibus Dealer or by personnel who are not expressly proven to be addressed by the authorized Dealer, as well as transport damage, or damage due to products or spare parts or components that are not recognized as defective by GIBUS S.p.A.
The conventional guarantee is not effective even in cases of improper use of the product if strong wind occurs beyond the limits indicated by the manufacturer, as well as heavy rain, hail, snow, ice and/or other atmospheric events, even combined, in the event of failure of the wall where the Pergola is fixed, and finally, in case of tampering with the product and use of non-original GIBUS spare parts and components.
The Conventional guarantee is not effective in the following cases:

- modification of any parts of the product during the installation or after the installation without the written authorization of GIBUS.
- installation of parts or components (including motors and automatic devices) not supplied by Gibus or not authorized in writing by Gibus.
- installation on the pergolas of side closures or windows or accessories made by other manufacturers, not present in the catalog and for which there is no written authorization from GIBUS S.p.a.
- installation on the pergolas of other pieces or components or side closures not authorized in writing by Gibus which, in Gibus's unquestionable judgment, may compromise the functioning and stability of the structure itself, its safety, its resistance to wind and atmospheric agents in general as well as the duration of the product.

For other specific exclusions from the guarantee, refer to the various chapters of the "Use and Maintenance Manual" attached to the product.

Art.11 RESPONSIBILITY OF THE MANUFACTURER

Gibus declines all responsibility for any damage that, directly or indirectly, could result to persons, property of the end user or third parties, as well as pets as a result of failure to comply with all the above requirements or those listed in the specific "Use and Maintenance Manual" and concerning, in particular, the warnings regarding the installation, use and maintenance of the product and in all other cases in which the aforementioned conventional guarantee is not effective.

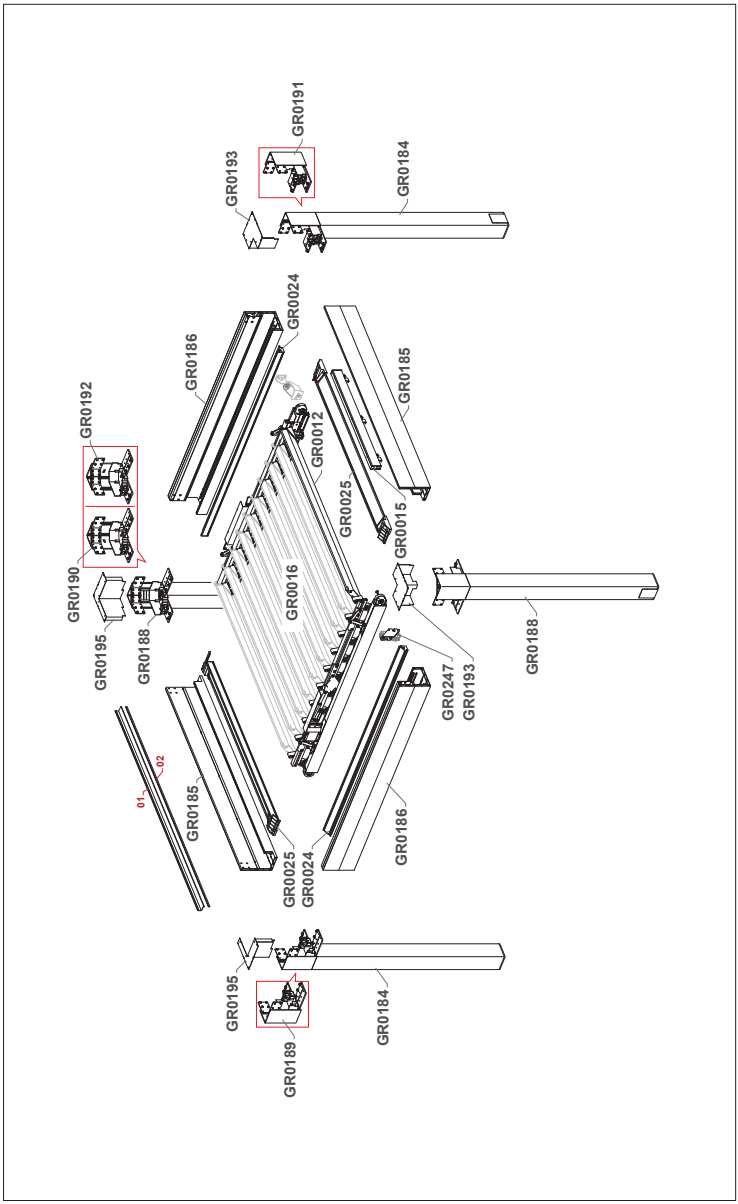
Art.12 FINAL REMARKS

The conventional guarantee is issued by GIBUS S.p.A. as also indicated in the "Use and Maintenance Manual" attached to each product that the authorized Gibus dealer shall handle to the customer and that the customer must demand.

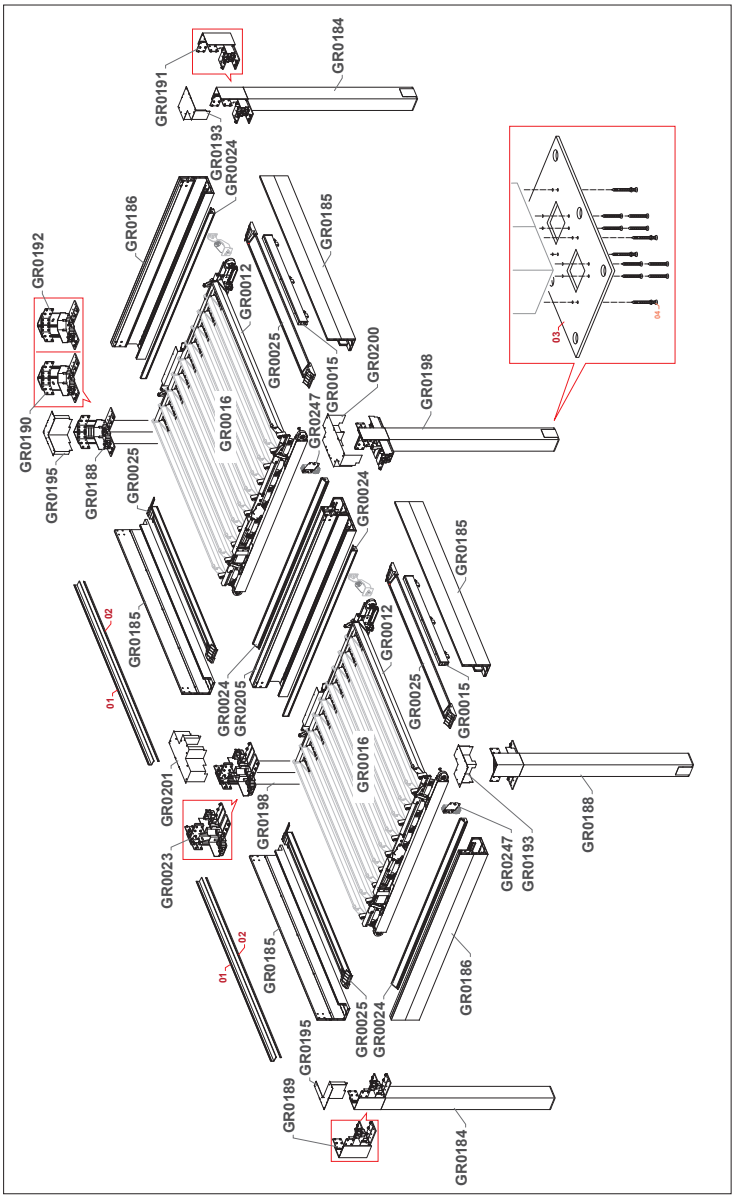
This warranty is issued by:
Gibus S.p.A.
via Einaudi 35 35030
Saccolongo (PD) - ITALY
For any dispute, is elected as the only jurisdiction that of Padua Italy.

CHAPTER 13: EXPLODED DRAWING OF *VELVET*

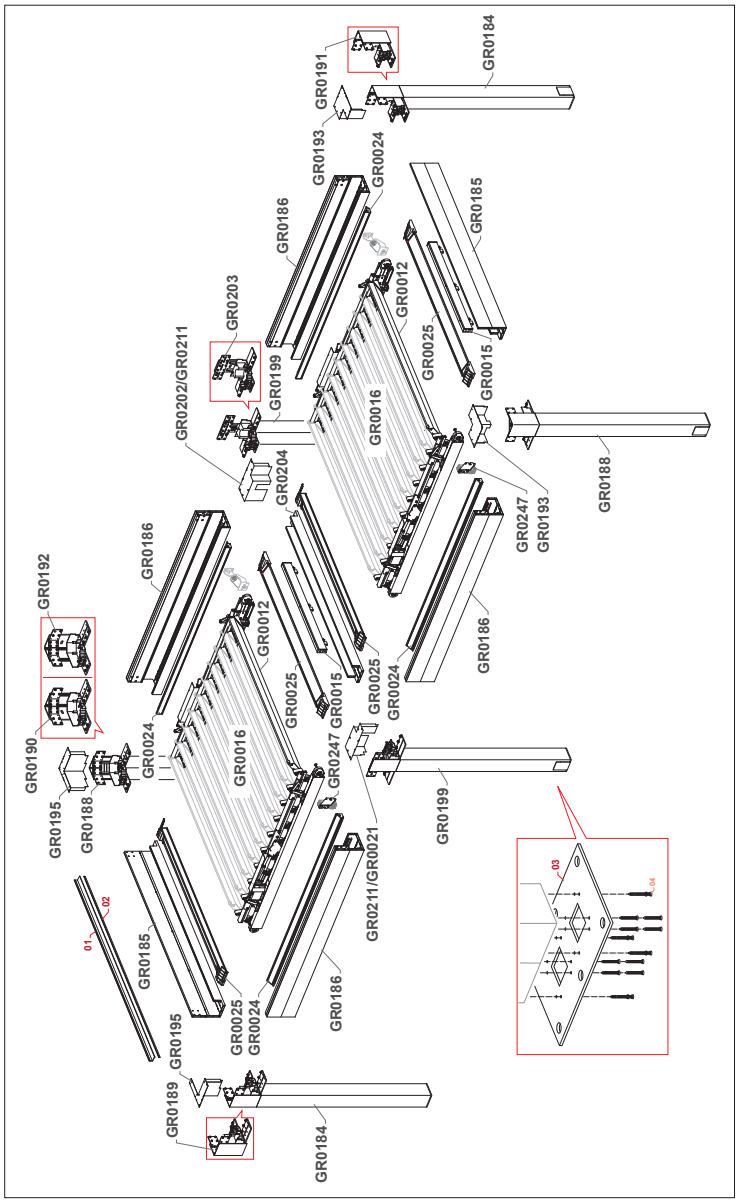
13.1 1 MODULE



13.2 COUPLING MODULE TYPE 1



13.3 COUPLING MODULE TYPE 2



CHAPTER 14: TECHNICAL NOTES

14.1 DECLARATION OF INSTALLATION

DECLARATION OF INSTALLATION (to be filled by the installer)			
VELVET			
☐ ISLAND ☐ FRONT LEANING ☐ SIDE LEANING	☐ 1 MODULE ☐ COUPLED	☐ OTHER	
Size L: S:	**Fabric** Type: Colour:	**Motor** Type:	**Automations** Type:
The undersigned:	of the Company:	Reference:	
as:	Address:		

Declares under his sole responsibility
- of having used the components contained in the packaging of the products by Gibus and additional products provided for by the Installation Instructions;
- of having checked the technical compliance of the housing site;
- of having carried out the installation through the instructions provided by the manufacturer in the Use and Maintenance Manual and in the Installation Instructions delivered with the packaged product;
- of having delivered to the customer these Use and Maintenance Manual with the Declaration of Performance DoP relevant to the regulations and European reference standards.

Installation: Installation Notes:	Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 2nd year	Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 3nd year	Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 4nd year	Date:	Stamp and signature Gibus technician:
Mandatory maintenance within the end of the 5nd year	Date:	Stamp and signature Gibus technician:

IMPORTANT!: Extraordinary maintenance is compulsory and should be carried out by a Gibus specialized technician by the end of the second year from the awning's installation; this will extend the warranty up to the 3rd year from the installation date. Use Gibus original spare parts to keep the warranty valid. Accordingly, a compulsory maintenance operation within the end of the 3rd year from the installation date is to be required to the Gibus specialized technician and that will extend the warranty to the 4th year; a compulsory maintenance in the 4th year from the installation date will extend the warranty to the 5th year.

Mandatory Maintenance Notes:

ADDITIONAL Installation Notes:

ADDITIONAL Mandatory Maintenance Notes:

14.2 MAINTENANCE AND NOTE REGISTER

Date	Operation description (including components replacement)	Full name and signature specialized technician

NOTES:

Date	Operation description (including components replacement)	Full name and signature specialized technician
NOTES:		

14.3 PRODUCTION NOTES

See the product sheet attached to the back cover.

CHAPTER 15: ANNEXES

ANNEX 0 - EC MARKING

THE SUN FACTORY

EN 13561

Via Einaudi, 35 - 35030 Saccolongo (PD)
22

Declaration of Performance no:	**MUT 113-CPR-15-02-2022**
Bioclimatic Pergola with brise soleil adjustable and packable for external use	
MODEL: Gibus® mod. VELVET	
Wind resistance VELVET:	**Technical class 5**
Total solar energy transmittance g_{tot} VELVET:	**See the production specifications on the back cover**

ANNEX 1 - SELF-CERTIFICATION DOCUMENT (*)

PERFORMANCE DECLARATION no: MUT 113-CPR-15-02-2022

1. Unique identification code for the product-type: Gibus® mod. VELVET
2. Serial number: **see the HOLOGRAM on the back cover**
3. Designed use: **Drop awning for outdoor use**
4. Name and address of the manufacturer: **Gibus S.p.A. - Via Einaudi, 35 - 35030 Saccolongo**
   www.gibus.it - E-mail: gibus@gibus.it
6. Assessment and check system of constant performance: **System 4**
9. Performance declared in accordance with the **UNI EN 13561** harmonized standard:

Essential Characteristics	Declared performance					
Resistenza al vento	Class 5					
Solar factor g_{tot}	See the value in the product specifications on the back cover (**)					
	Class	0	1	2	3	4
according to EN 14501	g_{tot}	$g_{tot} >= 0,50$	$0,35 <= g_{tot} < 0,50$	$0,15 <= g_{tot} < 0,35$	$0,10 <= g_{tot} < 0,15$	$g_{tot} <= 0,1$

10. The performance of the unit given in the items 1 and 2 complies with the performance declared in the item 9. This performance declaration is issued under the manufacturer's sole responsibility as per item 4.

Saccolongo, 15/02/2022
Signed in the name of and on behalf of: Gianfranco Bellin
Chief Executive Officer

(*) IMPORTANT NOTE: the stated performance is only guaranteed if the installation of the product is carried out correctly by the authorized dealer. The latter is required to compile the "DECLARATION OF CORRECT INSTALLATION", which should be left with the final customer when installation is completed.

CHAPTER 15: ANNEXES

ANNEX 2 - UKCA MARKING

Gibus® THE SUN FACTORY

UK CA
EN 13561

Via Einaudi, 35 - 35030 Saccolongo (PD)
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Declaration of Performance no:	**MUT 113-CPR-30-10-2022**
Bioclimatic Pergola with brise soleil adjustable and packable for external use	
MODEL: Gibus® mod. VELVET	
Wind resistance VELVET:	**Technical class 5**
Total solar energy transmittance g_{tot} VELVET:	**See the production specifications on the back cover**

ANNEX 3 - SELF-CERTIFICATION DOCUMENT (*)

PERFORMANCE DECLARATION no: MUT 113-CPR-30-10-2022

1. Unique identification code for the product-type: Gibus® mod. VELVET
2. Serial number: **see the HOLOGRAM on the back cover**
3. Designed use: **Drop awning for outdoor use**
4. Name and address of the manufacturer: **Gibus S.p.A. - Via Einaudi, 35 - 35030 Saccolongo**
   www.gibus.it - E-mail: gibus@gibus.it
6. Assessment and check system of constant performance: **System 4**
9. Performance declared in accordance with the **UNI EN 13561** harmonized standard:

Essential Characteristics	Declared performance					
Resistenza al vento	Class 5					
Solar factor g_{tot}	See the value in the product specifications on the back cover (**)					
	Class	0	1	2	3	4
according to EN 14501	g_{tot}	$g_{tot} >= 0,50$	$0,35 <= g_{tot} < 0,50$	$0,15 <= g_{tot} < 0,35$	$0,10 <= g_{tot} < 0,15$	$g_{tot} <= 0,1$

10. The performance of the unit given in the items 1 and 2 complies with the performance declared in the item 9. This performance declaration is issued under the manufacturer's sole responsibility as per item 4.

Saccolongo, 30/10/2022
Signed in the name of and on behalf of: Gianfranco Bellin
Chief Executive Officer

(*) IMPORTANT NOTE: the stated performance is only guaranteed if the installation of the product is carried out correctly by the authorized dealer. The latter is required to compile the "DECLARATION OF CORRECT INSTALLATION", which should be left with the final customer when installation is completed.

Gibus S.p.A.
via Luigi Einaudi, 35
35030 Saccolongo (PD) - ITALY
www.gibus.it - gibus@gibus.it

HOLOGRAM

PRODUCT SHEET

(**) g_{tot} **value** referring to the indicated fabric awning positioned vertically in front of a glass window. The value corresponding to the specific application must be determined by taking all the specifications of the housing unit and the inclination of the fabric into account. The g_{tot} **Class** can be found in the corresponding table on the previous page.